

ASR9000 Software Firmware Hardware Compatibility Matrix

This Document is for ASR9000 Family of products,
The matrix contains FPD information for 3.x.x, 4.x.x, 5.x.x, 6.x.x and 7.x.x
Releases.

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| ASR9000 Software / Firmware & Hardware Compatibility Matrix | | |
|---|------------------|--------------|
| Card Type | FPD Description | IOS XR 7.6.1 |
| Chassis | | |
| ASR-9006-AC | CBC(A) | 7.105 |
| ASR-9006-AC-V2 | CBC(A) | 7.105 |
| ASR-9010-AC | CBC(A) | 7.105 |
| ASR-9010-AC-V2 | CBC(A) | 7.105 |
| ASR-9904-AC | CBC(A) | 7.105 |
| ASR-9906 | CBC(A) | 7.105 |
| ASR-9910 | CBC(A) | 7.105 |
| ASR-9912-AC | CBC(A) | 7.105 |
| ASR-9922-AC | CBC-0(A) | 7.105 |
| | CBC-1(A) | 7.105 |
| Fan Trays | | |
| ASR-9006-FAN | CBC(A) | 5.04 |
| ASR-9006-FAN-V2 | CBC(A) | 5.05 |
| ASR-9010-FAN | CBC(A) | 4.03 |
| ASR-9010-FAN-V2 | CBC(A) | 29.12 |
| ASR-9904-FAN | CBC(A) | 31.06 |
| ASR-9906-FAN | CBC(A) | 56.01 |
| | PSOC(A) | 2.06 |
| ASR-9910-FAN | CBC(A) | 45.02 |
| | PSOC(A) | 2.06 |
| ASR-9912-FAN | CBC(A) | 31.06 |
| ASR-9922-FAN | CBC(A) | 29.12 |
| ASR-9922-FAN-V2 | CBC(A) | 40.07 |
| | PSOC(A) | 2.06 |
| ASR-9922-FAN-V3 | CBC(A) | 40.07 |
| | PSOC(A) | 2.06 |
| Power Supply Module | | |
| PWR-2KW-DC-V2 | DT-PrIMCU(A) | 6.03 |
| | DT-Sec54vMCU(A) | 6.02 |
| | DT-Sec5vMCU(A) | 6.03 |
| | EM-PrIMCU(A) | 3.12 |
| | EM-Sec54vMCU(A) | 3.21 |
| | EM-Sec5vMCU(A) | 3.20 |
| PWR-3KW-AC-V2 | DT-PrIMCU(A) | 6.02 |
| | DT-Sec54vMCU(A) | 6.02 |
| | DT-Sec5vMCU(A) | 6.04 |
| | EM-Sec54vMCU(A) | 3.12 |
| | EM-Sec5vMCU(A) | 3.18 |
| PWR-3KW-HVDC | DT-PrIMCU(A) | 2.02 |
| | DT-Sec54vMCU(A) | 2.02 |
| | DT-Sec5vMCU(A) | 2.03 |
| PWR-4.4KW-DC-V3 | DT-PrI0MCU(A) | 3.00 |
| | DT-PrI1MCU(A) | 3.00 |
| | DT-Sec054vMCU(A) | 3.00 |
| | DT-Sec154vMCU(A) | 3.00 |
| | DT-Sec5vMCU(A) | 3.00 |
| PWR-6KW-AC-V3 | AB-PrI0MCU(A) | 3.02 |
| | AB-PrI1MCU(A) | 3.02 |
| | AB-Sec054vMCU(A) | 3.02 |
| | AB-Sec154vMCU(A) | 3.02 |
| | AB-Sec5vMCU(A) | 3.02 |
| | DT-PrI0MCU(A) | 4.02 |
| | DT-PrI1MCU(A) | 4.02 |
| | DT-Sec054vMCU(A) | 4.03 |
| | DT-Sec154vMCU(A) | 4.03 |
| | DT-Sec5vMCU(A) | 4.04 |
| A9K-1600W-AC | PO-PrIMCU(A) | 17.14 |
| A9K-1600W-DC | PO-PrIMCU(A) | 1.09 |
| Fabric Cards | | |
| A99-SFC-S | CBC(A) | 44.02 |
| | IPU-FPGA(A) | 0.37 |
| | IPU-FSBL(A) | 1.1 |
| | IPU-Linux(A) | 1.1 |
| A99-SFC-T | CBC(A) | 44.02 |
| | IPU-FPGA(A) | 0.37 |
| | IPU-FSBL(A) | 1.1 |
| | IPU-Linux(A) | 1.1 |
| A99-SFC2 | CBC(A) | 37.2 |
| | IPU-FPGA(A) | 0.37 |
| | IPU-FSBL(A) | 1.1 |
| | IPU-Linux(A) | 1.1 |
| A99-SFC3 | CBC(A) | 49.03 |
| | IPU-DDR4(A) | 0.22 |
| A99-SFC3-S | CBC(A) | 44.02 |
| | IPU-DDR4(A) | 0.22 |
| A99-SFC3-T | CBC(A) | 44.02 |
| | IPU-DDR4(A) | 0.22 |
| ASR-9912-SFC220 | CBC(A) | 37.2 |
| | IPU-FPGA(A) | 0.37 |
| | IPU-FSBL(A) | 1.1 |
| | IPU-Linux(A) | 1.1 |
| RSPs | | |
| A99-RP2-SE | Alpha-FPGA(A) | 0.160 |
| | CBC-0(A) | 35.140 |
| | CBC-1(A) | 35.140 |
| | Cha-FPGA(A) | 0.080 |
| | IPU-FPGA(A) | 0.710 |
| | IPU-FSBL(A) | 1.110 |
| | IPU-Linux(A) | 1.110 |
| | Omega-FPGA(A) | 0.160 |
| | Optimus-FPGA(A) | 0.120 |
| | Primary-BIOS(A) | 14.380 |
| A99-RP2-TR | Alpha-FPGA(A) | 0.160 |
| | CBC-0(A) | 35.140 |
| | CBC-1(A) | 35.140 |

| | | |
|-------------------|----------------------|--------|
| | Cha-FPGA(A) | 0.080 |
| | IPU-FPGA(A) | 0.710 |
| | IPU-FSBL(A) | 1.110 |
| | IPU-Linux(A) | 1.110 |
| | Omega-FPGA(A) | 0.160 |
| | Optimus-FPGA(A) | 0.120 |
| | Primary-BIOS(A) | 14.380 |
| A99-RP3-SE | Aldrin-0-FPGA(A) | 1.030 |
| | Aldrin-1-FPGA(A) | 1.000 |
| | Beta-FPGA(A) | 0.070 |
| | CBC-0(A) | 51.120 |
| | CBC-1(A) | 51.120 |
| | IPU-DDR4(A) | 0.190 |
| | Orion-FPGA(A) | 0.230 |
| | Primary-BIOS(A) | 30.340 |
| | Zenith-FPGA(A) | 0.090 |
| A99-RP3-TR | Aldrin-0-FPGA(A) | 1.030 |
| | Aldrin-1-FPGA(A) | 1.000 |
| | Beta-FPGA(A) | 0.070 |
| | CBC-0(A) | 51.120 |
| | CBC-1(A) | 51.120 |
| | IPU-DDR4(A) | 0.190 |
| | Orion-FPGA(A) | 0.230 |
| | Primary-BIOS(A) | 30.340 |
| | Zenith-FPGA(A) | 0.090 |
| A99-RSP-SE | Alpha-FPGA(A) | 0.160 |
| | CBC(A) | 43.030 |
| | Cha-FPGA(A) | 0.080 |
| | IPU-FPGA(A) | 0.710 |
| | IPU-FSBL(A) | 1.110 |
| | IPU-Linux(A) | 1.110 |
| | Omega-FPGA(A) | 0.160 |
| | Optimus-FPGA(A) | 0.120 |
| | Primary-BIOS(A) | 16.170 |
| A99-RSP-TR | Alpha-FPGA(A) | 0.160 |
| | CBC(A) | 43.030 |
| | Cha-FPGA(A) | 0.080 |
| | IPU-FPGA(A) | 0.710 |
| | IPU-FSBL(A) | 1.110 |
| | IPU-Linux(A) | 1.110 |
| | Omega-FPGA(A) | 0.160 |
| | Optimus-FPGA(A) | 0.120 |
| | Primary-BIOS(A) | 16.170 |
| A9K-RSP5-SE | Aldrin-0-FPGA(A) | 1.060 |
| | Beta-FPGA(A) | 0.070 |
| | CBC(A) | 53.100 |
| | IPU-DDR4(A) | 0.190 |
| | Orion-FPGA(A) | 0.230 |
| | Primary-BIOS(A) | 31.340 |
| | Zenith-FPGA(A) | 0.090 |
| A9K-RSP5-TR | Aldrin-0-FPGA(A) | 1.060 |
| | Beta-FPGA(A) | 0.070 |
| | CBC(A) | 53.100 |
| | IPU-DDR4(A) | 0.190 |
| | Orion-FPGA(A) | 0.230 |
| | Primary-BIOS(A) | 31.340 |
| | Zenith-FPGA(A) | 0.090 |
| A9K-RSP880-LT-SE | Aldrin-FPGA(A) | 1.110 |
| | Alpha-FPGA(A) | 0.050 |
| | CBC(A) | 50.020 |
| | IPU-FPGA(A) | 0.190 |
| | IPU-FSBL(A) | 1.110 |
| | IPU-Linux(A) | 1.110 |
| | Omega-FPGA(A) | 0.040 |
| | Optimus-FPGA(A) | 0.040 |
| | Primary-BIOS(A) | 17.370 |
| A9K-RSP880-LT-TR | Aldrin-FPGA(A) | 1.110 |
| | Alpha-FPGA(A) | 0.050 |
| | CBC(A) | 50.020 |
| | IPU-FPGA(A) | 0.190 |
| | IPU-FSBL(A) | 1.110 |
| | IPU-Linux(A) | 1.110 |
| | Omega-FPGA(A) | 0.040 |
| | Optimus-FPGA(A) | 0.040 |
| | Primary-BIOS(A) | 17.370 |
| A9K-RSP880-SE | Alpha-FPGA(A) | 0.160 |
| | CBC(A) | 34.390 |
| | Cha-FPGA(A) | 0.080 |
| | IPU-FPGA(A) | 0.710 |
| | IPU-FSBL(A) | 1.110 |
| | IPU-Linux(A) | 1.110 |
| | Omega-FPGA(A) | 0.160 |
| | Optimus-FPGA(A) | 0.120 |
| | Primary-BIOS(A) | 10.680 |
| A9K-RSP880-TR | Alpha-FPGA(A) | 0.160 |
| | CBC(A) | 34.390 |
| | Cha-FPGA(A) | 0.080 |
| | IPU-FPGA(A) | 0.710 |
| | IPU-FSBL(A) | 1.110 |
| | IPU-Linux(A) | 1.110 |
| | Omega-FPGA(A) | 0.160 |
| | Optimus-FPGA(A) | 0.120 |
| | Primary-BIOS(A) | 10.680 |
| Line Cards | | |
| A99-10X400GE-X-CM | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.110 |
| | Grapple-1(A) | 0.110 |
| | IPU-DDR4(A) | 1.050 |
| | Mxmester-0(A) | 0.080 |
| | Mxmester-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylinx-0(A) | 0.080 |
| | Skylinx-1(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |
| A99-10X400GE-X-SE | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |

| | | |
|-------------------|----------------------|--------|
| | Grapple-0(A) | 0.110 |
| | Grapple-1(A) | 0.110 |
| | IPU-DDR4(A) | 1.050 |
| | Mixmaster-0(A) | 0.080 |
| | Mixmaster-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylynx-0(A) | 0.080 |
| | Skylynx-1(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |
| A99-10X400GE-X-TR | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.110 |
| | Grapple-1(A) | 0.110 |
| | IPU-DDR4(A) | 1.050 |
| | Mixmaster-0(A) | 0.080 |
| | Mixmaster-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylynx-0(A) | 0.080 |
| | Skylynx-1(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |
| A99-12X100GE | CBC(A) | 46.060 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Morra-0(A) | 1.020 |
| | Morra-1(A) | 1.020 |
| | Primary-BIOS(A) | 9.300 |
| | Sideswipe-0(A) | 1.020 |
| | Sideswipe-1(A) | 1.020 |
| | | |
| A99-12X100GE-CM | CBC(A) | 46.060 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Morra-0(A) | 1.020 |
| | Morra-1(A) | 1.020 |
| | Primary-BIOS(A) | 9.300 |
| | Sideswipe-0(A) | 1.020 |
| | Sideswipe-1(A) | 1.020 |
| | | |
| A99-16X100GE-CM | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.120 |
| | IPU-DDR4(A) | 1.060 |
| | Mixmaster-0(A) | 0.080 |
| | Primary-BIOS(A) | 21.370 |
| | Scamper(A) | 0.230 |
| | Skylynx-0(A) | 0.080 |
| | | |
| A99-16X100GE-SE | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.120 |
| | IPU-DDR4(A) | 1.060 |
| | Mixmaster-0(A) | 0.080 |
| | Primary-BIOS(A) | 21.370 |
| | Scamper(A) | 0.230 |
| | Skylynx-0(A) | 0.080 |
| | | |
| A99-16X100GE-TR | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.120 |
| | IPU-DDR4(A) | 1.060 |
| | Mixmaster-0(A) | 0.080 |
| | Primary-BIOS(A) | 21.370 |
| | Scamper(A) | 0.230 |
| | Skylynx-0(A) | 0.080 |
| | | |
| A99-16X100GE-X-SE | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.120 |
| | Grapple-1(A) | 0.120 |
| | IPU-DDR4(A) | 1.060 |
| | Mixmaster-0(A) | 0.080 |
| | Mixmaster-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.370 |
| | Scamper(A) | 0.230 |
| | Skylynx-0(A) | 0.080 |
| | Skylynx-1(A) | 0.080 |
| A99-24HG-FLEX-CM | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.110 |
| | Grapple-1(A) | 0.110 |
| | IPU-DDR4(A) | 1.050 |
| | Mixmaster-0(A) | 0.080 |
| | Mixmaster-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylynx-0(A) | 0.080 |
| | Skylynx-1(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |
| A99-24HG-FLEX-SE | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.110 |
| | Grapple-1(A) | 0.110 |
| | IPU-DDR4(A) | 1.050 |
| | Mixmaster-0(A) | 0.080 |
| | Mixmaster-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylynx-0(A) | 0.080 |
| | Skylynx-1(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |
| A99-24HG-FLEX-TR | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.110 |
| | Grapple-1(A) | 0.110 |
| | IPU-DDR4(A) | 1.050 |
| | Mixmaster-0(A) | 0.080 |
| | Mixmaster-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylynx-0(A) | 0.080 |
| | Skylynx-1(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |

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|-------------------|----------------------|--------|
| A99-24X10GE-1G-CM | CBC(A) | 47.030 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Leadfoot-0(A) | 1.000 |
| | Lewis(A) | 1.110 |
| | Primary-BIOS(A) | 18.300 |
| A99-24X10GE-1G-SE | CBC(A) | 47.030 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Leadfoot-0(A) | 1.000 |
| | Lewis(A) | 1.110 |
| | Primary-BIOS(A) | 18.300 |
| A99-24X10GE-1G-TR | CBC(A) | 47.030 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Leadfoot-0(A) | 1.000 |
| | Lewis(A) | 1.110 |
| | Primary-BIOS(A) | 18.300 |
| A99-32X100GE-CM | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.120 |
| | Grapple-1(A) | 0.120 |
| | IPU-DDR4(A) | 1.060 |
| | Mixmaster-0(A) | 0.080 |
| | Mixmaster-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.370 |
| | Scamper(A) | 0.230 |
| | Skylynx-0(A) | 0.080 |
| | Skylynx-1(A) | 0.080 |
| A99-32X100GE-DENS | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.110 |
| | Grapple-1(A) | 0.110 |
| | IPU-DDR4(A) | 1.050 |
| | Mixmaster-0(A) | 0.080 |
| | Mixmaster-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylynx-0(A) | 0.080 |
| | Skylynx-1(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |
| A99-32X100GE-SE | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.120 |
| | Grapple-1(A) | 0.120 |
| | IPU-DDR4(A) | 1.060 |
| | Mixmaster-0(A) | 0.080 |
| | Mixmaster-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.370 |
| | Scamper(A) | 0.230 |
| | Skylynx-0(A) | 0.080 |
| | Skylynx-1(A) | 0.080 |
| A99-32X100GE-TR | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.120 |
| | Grapple-1(A) | 0.120 |
| | IPU-DDR4(A) | 1.060 |
| | Mixmaster-0(A) | 0.080 |
| | Mixmaster-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.370 |
| | Scamper(A) | 0.230 |
| | Skylynx-0(A) | 0.080 |
| | Skylynx-1(A) | 0.080 |
| A99-32X100GE-X-TR | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.110 |
| | Grapple-1(A) | 0.110 |
| | IPU-DDR4(A) | 1.050 |
| | Mixmaster-0(A) | 0.080 |
| | Mixmaster-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylynx-0(A) | 0.080 |
| | Skylynx-1(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |
| A99-48X10GE-1G-CM | CBC(A) | 47.030 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Leadfoot-0(A) | 1.000 |
| | Leadfoot-1(A) | 1.000 |
| | Lewis(A) | 1.110 |
| | Primary-BIOS(A) | 18.300 |
| A99-48X10GE-1G-SE | CBC(A) | 47.030 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Leadfoot-0(A) | 1.000 |
| | Leadfoot-1(A) | 1.000 |
| | Lewis(A) | 1.110 |
| | Primary-BIOS(A) | 18.300 |
| A99-48X10GE-1G-TR | CBC(A) | 47.030 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Leadfoot-0(A) | 1.000 |
| | Leadfoot-1(A) | 1.000 |
| | Lewis(A) | 1.110 |
| | Primary-BIOS(A) | 18.300 |
| A99-4X100GE-SE | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |

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|---------------------------|-----------------|--------|
| | Primary-BIOS(A) | 8.500 |
| | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A99-4X100GE-SE-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A99-4X100GE-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A99-4X100GE-TR | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A99-4X100GE-TR-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A99-8X100GE-CM | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A99-8X100GE-SE | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A99-8X100GE-SE-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A99-8X100GE-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A99-8X100GE-TR | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A99-8X100GE-TR-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |

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| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | | |
| A99L-4X100GE-SE-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | | |
| A99L-4X100GE-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | | |
| A99L-4X100GE-TR-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | | |
| A99L-8X100GE-SE-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | | |
| A99L-8X100GE-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | | |
| A99L-8X100GE-TR-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | | |
| A9K-16X100GE-CM | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.120 |
| | IPU-DDR4(A) | 1.060 |
| | Mixmaster-0(A) | 0.080 |
| | Primary-BIOS(A) | 21.370 |
| | Scamper(A) | 0.230 |
| | Skylynx-0(A) | 0.080 |
| | | |
| A9K-16X100GE-SE | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.120 |
| | IPU-DDR4(A) | 1.060 |
| | Mixmaster-0(A) | 0.080 |
| | Primary-BIOS(A) | 21.370 |
| | Scamper(A) | 0.230 |
| | Skylynx-0(A) | 0.080 |
| | | |
| A9K-16X100GE-TR | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.120 |
| | IPU-DDR4(A) | 1.060 |
| | Mixmaster-0(A) | 0.080 |
| | Primary-BIOS(A) | 21.370 |
| | Scamper(A) | 0.230 |
| | Skylynx-0(A) | 0.080 |
| | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.120 |
| | IPU-DDR4(A) | 1.060 |
| | Mixmaster-0(A) | 0.080 |
| | Primary-BIOS(A) | 21.370 |
| | Scamper(A) | 0.230 |
| | Skylynx-0(A) | 0.080 |
| | | |
| A9K-20HG-FLEX-CM | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.110 |
| | Grapple-1(A) | 0.110 |
| | IPU-DDR4(A) | 1.050 |
| | Mixmaster-0(A) | 0.080 |
| | Mixmaster-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylynx-0(A) | 0.080 |
| | Skylynx-1(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |
| | | |
| A9K-20HG-FLEX-SE | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.110 |
| | Grapple-1(A) | 0.110 |
| | IPU-DDR4(A) | 1.050 |
| | Mixmaster-0(A) | 0.080 |
| | Mixmaster-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylynx-0(A) | 0.080 |
| | Skylynx-1(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |
| | | |
| A9K-20HG-FLEX-TR | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.110 |

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|---------------------------|----------------------|--------|
| | Grapple-1(A) | 0.110 |
| | IPU-DDR4(A) | 1.050 |
| | Mxmster-0(A) | 0.080 |
| | Mxmster-1(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylinx-0(A) | 0.080 |
| | Skylinx-1(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |
| A9K-24X10GE-1G-CM | CBC(A) | 47.030 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Leadfoot-0(A) | 1.000 |
| | Lewis(A) | 1.110 |
| | Primary-BIOS(A) | 18.300 |
| A9K-24X10GE-1G-SE | CBC(A) | 47.030 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Leadfoot-0(A) | 1.000 |
| | Lewis(A) | 1.110 |
| | Primary-BIOS(A) | 18.300 |
| A9K-24X10GE-1G-TR | CBC(A) | 47.030 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Leadfoot-0(A) | 1.000 |
| | Lewis(A) | 1.110 |
| | Primary-BIOS(A) | 18.300 |
| A9K-400G-DWDM-TR | CBC(A) | 42.040 |
| | CFP2-0 | 5.520 |
| | CFP2-1 | 5.520 |
| | Doran(A) | 1.050 |
| | ETNA-0 | 3.780 |
| | ETNA-1 | 3.780 |
| | Frenzy(A) | 49.000 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Martelli(A) | 1.030 |
| | Meldun(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-48X10GE-1G-CM | CBC(A) | 47.030 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Leadfoot-0(A) | 1.000 |
| | Leadfoot-1(A) | 1.000 |
| | Lewis(A) | 1.110 |
| | Primary-BIOS(A) | 18.300 |
| A9K-48X10GE-1G-SE | CBC(A) | 47.030 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Leadfoot-0(A) | 1.000 |
| | Leadfoot-1(A) | 1.000 |
| | Lewis(A) | 1.110 |
| | Primary-BIOS(A) | 18.300 |
| A9K-48X10GE-1G-TR | CBC(A) | 47.030 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Leadfoot-0(A) | 1.000 |
| | Leadfoot-1(A) | 1.000 |
| | Lewis(A) | 1.110 |
| | Primary-BIOS(A) | 18.300 |
| A9K-4X100GE | CBC(A) | 46.060 |
| | IPU-FPGA(A) | 1.890 |
| | IPU-FSBL(A) | 1.112 |
| | IPU-Linux(A) | 1.112 |
| | Morra-0(A) | 1.020 |
| | Primary-BIOS(A) | 9.300 |
| | Sideswipe-0(A) | 1.020 |
| A9K-4X100GE-SE | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-4X100GE-SE-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-4X100GE-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-4X100GE-TR | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |

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| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-4X100GE-TR-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-4X100GE-TR-V2 | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.120 |
| | IPU-DDR4(A) | 1.060 |
| | Mixmaster-0(A) | 0.080 |
| | Primary-BIOS(A) | 21.370 |
| | Scamper(A) | 0.230 |
| | Skylinx-0(A) | 0.080 |
| A9K-8HG-FLEX-CM | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.110 |
| | IPU-DDR4(A) | 1.050 |
| | Mixmaster-0(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylinx-0(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |
| A9K-8HG-FLEX-SE | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.110 |
| | IPU-DDR4(A) | 1.050 |
| | Mixmaster-0(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylinx-0(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |
| A9K-8HG-FLEX-TR | Aldrin-FPGA(A) | 1.040 |
| | CBC(A) | 48.090 |
| | Grapple-0(A) | 0.110 |
| | IPU-DDR4(A) | 1.050 |
| | Mixmaster-0(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylinx-0(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |
| A9K-8X100GE-CM | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-8X100GE-L-SE | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-8X100GE-L-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-8X100GE-L-TR | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-8X100GE-SE | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-8X100GE-SE-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-8X100GE-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |

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| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-8X100GE-TR | | 38.230 |
| | CBC(A) | 1.090 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-8X100GE-TR-TAA | | 38.230 |
| | CBC(A) | 1.090 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-8X100GE-X-CM | | 1.040 |
| | Aldrin-FPGA(A) | 48.090 |
| | CBC(A) | 0.120 |
| | Grapple-0(A) | 1.060 |
| | IPU-DDR4(A) | 0.080 |
| | Mixmaster-0(A) | 21.370 |
| | Primary-BIOS(A) | 0.230 |
| | Scamper(A) | 0.080 |
| | Skylynx-0(A) | |
| A9K-8X100GE-X-SE | | 1.040 |
| | Aldrin-FPGA(A) | 48.090 |
| | CBC(A) | 0.120 |
| | Grapple-0(A) | 1.060 |
| | IPU-DDR4(A) | 0.080 |
| | Mixmaster-0(A) | 21.370 |
| | Primary-BIOS(A) | 0.230 |
| | Scamper(A) | 0.080 |
| | Skylynx-0(A) | |
| A9K-8X100GE-X-TR | | 1.040 |
| | Aldrin-FPGA(A) | 48.090 |
| | CBC(A) | 0.120 |
| | Grapple-0(A) | 1.060 |
| | IPU-DDR4(A) | 0.080 |
| | Mixmaster-0(A) | 21.370 |
| | Primary-BIOS(A) | 0.230 |
| | Scamper(A) | 0.080 |
| | Skylynx-0(A) | 1.040 |
| | Aldrin-FPGA(A) | 48.090 |
| | CBC(A) | 0.120 |
| | Grapple-0(A) | 1.060 |
| | IPU-DDR4(A) | 0.080 |
| | Mixmaster-0(A) | 21.370 |
| | Primary-BIOS(A) | 0.230 |
| | Scamper(A) | 0.080 |
| | Skylynx-0(A) | |
| A9K-8X100GELSE-TAA | | 38.230 |
| | CBC(A) | 1.090 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-8X100GELTR-TAA | | 38.230 |
| | CBC(A) | 1.090 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| A9K-MOD200-CM | | 1.270 |
| | Blaster(A) | 39.090 |
| | CBC(A) | 1.970 |
| | IPU-FPGA(A) | 1.103 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 8.500 |
| | Primary-BIOS(A) | |
| A9K-MOD200-SE | | 1.270 |
| | Blaster(A) | 39.090 |
| | CBC(A) | 1.970 |
| | IPU-FPGA(A) | 1.103 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 8.500 |
| | Primary-BIOS(A) | |
| A9K-MOD200-TR | | 1.270 |
| | Blaster(A) | 39.090 |
| | CBC(A) | 1.970 |
| | IPU-FPGA(A) | 1.103 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 8.500 |
| | Primary-BIOS(A) | |
| A9K-MOD400-CM | | 1.270 |
| | Blaster(A) | 39.090 |
| | CBC(A) | 1.970 |
| | IPU-FPGA(A) | 1.103 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 8.500 |
| | Primary-BIOS(A) | |
| A9K-MOD400-SE | | 1.270 |
| | Blaster(A) | 39.090 |
| | CBC(A) | 1.970 |
| | IPU-FPGA(A) | 1.103 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 8.500 |
| | Primary-BIOS(A) | |
| A9K-MOD400-TR | | 1.270 |
| | Blaster(A) | 39.090 |
| | CBC(A) | 1.970 |
| | IPU-FPGA(A) | 1.103 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 8.500 |
| | Primary-BIOS(A) | |
| A9K-TEST_LSQ_DX1 | | 1.040 |
| | Aldrin-FPGA(A) | 48.090 |
| | CBC(A) | 0.110 |
| | Grapple-0(A) | 1.050 |
| | IPU-DDR4(A) | |

| | | |
|--|----------------------|--------|
| | Mixmaster-0(A) | 0.080 |
| | Primary-BIOS(A) | 21.310 |
| | Skylynx-0(A) | 0.080 |
| | Sunstreaker(A) | 0.010 |
| | TAMFW-Sunstreaker(A) | 2.060 |
| | | |
| A9KL-4X100GE-SE-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | | |
| A9KL-4X100GE-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | | |
| A9KL-4X100GE-TR-TAA | CBC(A) | 38.230 |
| | Dalla(A) | 1.090 |
| | IPU-FPGA(A) | 1.970 |
| | IPU-FSBL(A) | 1.103 |
| | IPU-Linux(A) | 1.103 |
| | Meldun-0(A) | 1.070 |
| | Meldun-1(A) | 1.070 |
| | Primary-BIOS(A) | 8.500 |
| | | |
| MPAs | | |
| A9K-MPA-1X100GE | CFP2-DCO-0 | 38.27 |
| | CFP2-DCO-B0-0 | 38.27 |
| | Springer | 1.04 |
| | | |
| A9K-MPA-1X200GE | CFP2-DCO-0 | 38.27 |
| | CFP2-DCO-B0-0 | 38.27 |
| | Springer | 1.04 |
| | | |
| A9K-MPA-1X40GE | Sage | 1.03 |
| | | |
| A9K-MPA-20X10GE | Skyquake | 1.16 |
| | | |
| A9K-MPA-20X1GE | Gambit | 1.01 |
| | | |
| A9K-MPA-2X100GE | CFP2-DCO-0 | 38.27 |
| | CFP2-DCO-1 | 38.27 |
| | CFP2-DCO-B0-0 | 38.27 |
| | CFP2-DCO-B0-1 | 38.27 |
| | Springer | 1.04 |
| | | |
| A9K-MPA-2X10GE | Rogue | 1.06 |
| | | |
| A9K-MPA-2X40GE | Sage | 1.03 |
| | | |
| A9K-MPA-32X1GE | Antman | 1.09 |
| | | |
| A9K-MPA-4X10GE | Rogue | 1.06 |
| | | |
| A9K-MPA-8X10GE | Pixie | 1.09 |
| | | |
| A9K-MPA20X10GE-CM | Skyquake | 1.16 |
| | | |
| A9K-MPA2X100GE-CM | CFP2-DCO-0 | 38.27 |
| | CFP2-DCO-1 | 38.27 |
| | CFP2-DCO-B0-0 | 38.27 |
| | CFP2-DCO-B0-1 | 38.27 |
| | Springer | 1.04 |
| | | |
| Legend: | | |
| "Value" = The recommended firmware version for the particular XR Release | | |
| "X" = Not applicable or relevant to particular XR Release | | |
| | | |
| | | |
| Notes: | | |
| 1. Shipped versions of ROMMON from manufacturing should supersede any previously released versions in software. Always use the latest version of ROMMON. Specifically, do not force downgrade ROMMON versions. | | |
| 2. All FPGA, PLD, and ROMMON versions are fully backward compatible. There is no requirement to force downgrade firmware when downgrading software. | | |
| | | |
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| ASR9000 Software / Firmware & Hardware Compatibility Matrix | | | | | | | | | | | | |
|---|---------------------------|----------|--------------|--------------|--------------|--------------|------------|------------|--------------|--------------|--------------|--------------|
| Hardware Type | FPD Description | Sub-Type | IOS XR 6.0.1 | IOS XR 6.0.2 | IOS XR 6.1.1 | IOS XR 6.1.2 | IOS XR 6.2 | IOS XR 6.3 | IOS XR 6.3.1 | IOS XR 6.4.1 | IOS XR 6.4.2 | IOS XR 6.6.1 |
| uPBD | | | | | | | | | | | | |
| ASR-9904-BPD2 | Can Bus Ctrl (CB) BPD2 | cbsc | 7.104 | 7.104 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 |
| ASR-9912-BPD2 | Can Bus Ctrl (CB) BPD2 | cbsc | 7.104 | 7.104 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 |
| ASR-9922-BPD2 | Can Bus Ctrl (CB) BPD2 | cbsc | 7.104 | 7.104 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 |
| AKK-BPD2-E-10-SLOT | Can Bus Ctrl (CB) BPD2 | cbsc | 7.104 | 7.104 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 |
| AKK-BPD2-E-6-SLOT | Can Bus Ctrl (CB) BPD2 | cbsc | 7.104 | 7.104 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 |
| AKK-BPD2-10SLOT | Can Bus Ctrl (CB) BPD2 | cbsc | 7.104 | 7.104 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 |
| AKK-BPD2-6-SLOT | Can Bus Ctrl (CB) BPD2 | cbsc | 7.104 | 7.104 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 |
| ASR-9910-BPD2 | Can Bus Ctrl (CB) BPD2 | cbsc | 7.104 | 7.104 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 | 7.105 |
| Fan Trays | | | | | | | | | | | | |
| ASR-9010-FAN | Can Bus Ctrl (CB) FAN | cbsc | 4.03 | 4.03 | 4.03 | 4.03 | 4.03 | 4.03 | 4.03 | 4.03 | 4.03 | 4.03 |
| ASR-9006-FAN | Can Bus Ctrl (CB) FAN | cbsc | 5.04 | 5.04 | 5.04 | 5.04 | 5.04 | 5.04 | 5.04 | 5.04 | 5.04 | 5.04 |
| ASR-9922-FAN | Can Bus Ctrl (CB) MFAN | cbsc | 29.12 | 29.12 | 29.12 | 29.12 | 29.12 | 29.12 | 29.12 | 29.12 | 29.12 | 29.12 |
| ASR-9912-FAN | Can Bus Ctrl (CB) SFAN | cbsc | 31.05 | 31.05 | 31.05 | 31.05 | 31.05 | 31.05 | 31.05 | 31.05 | 31.05 | 31.05 |
| ASR-9010-FAN-V2 | Can Bus Ctrl (CB) FAN | cbsc | 29.12 | 29.12 | 29.12 | 29.12 | 29.12 | 29.12 | 29.12 | 29.12 | 29.12 | 29.12 |
| ASR-9904-FAN | Can Bus Ctrl (CB) SFAN | cbsc | 31.05 | 31.05 | 31.05 | 31.05 | 31.05 | 31.05 | 31.05 | 31.05 | 31.05 | 31.05 |
| ASR-9922-FAN-V2 | Can Bus Ctrl (CB) MFAN | cbsc | 40.07 | 40.07 | 40.07 | 40.07 | 40.07 | 40.07 | 40.07 | 40.07 | 40.07 | 40.07 |
| ASR-9001-FAN | Can Bus Ctrl (CB) FAN | cbsc | 2.04 | 2.04 | 2.04 | 2.04 | 2.06 | 2.06 | 2.06 | 2.06 | 2.06 | 2.06 |
| ASR-9001-FAN-V2 | Can Bus Ctrl (CB) FAN | cbsc | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 |
| ASR-9910-FAN | Can Bus Ctrl (CB) SHFAN | cbsc | 45.020 | 45.020 | 45.020 | 45.020 | 45.020 | 45.020 | 45.020 | 45.020 | 45.020 | 45.020 |
| ASR-9006-FAN-V2 | Fan Controller SHFAN | fpag9 | 2.060 | 2.060 | 2.060 | 2.060 | 2.060 | 2.060 | 2.060 | 2.060 | 2.060 | 2.060 |
| ASR-9006-FAN-V2 | Can Bus Ctrl (CB) FAN | cbsc | 5.040 | 5.040 | 5.040 | 5.040 | 5.040 | 5.040 | 5.040 | 5.040 | 5.040 | 5.040 |
| Power Supply Module | | | | | | | | | | | | |
| PWR-3KW-AC-V2 | Delta AC logic PM | fpag11 | 6.04 | 6.04 | 6.04 | 6.04 | 6.04 | 6.04 | 6.04 | 6.04 | 6.04 | 6.04 |
| | Delta AC primary PM | fpag12 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 |
| | Delta AC secondary PM | fpag13 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 |
| | Emerson AC logic PM | fpag14 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 |
| | Emerson AC primary PM | fpag15 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 |
| | Emerson AC secondary PM | fpag16 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 |
| PWR-2KW-DC-V2 | Delta DC logic PM | fpag11 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 |
| | Delta DC primary PM | fpag12 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 |
| | Delta DC secondary PM | fpag13 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 |
| | Emerson DC logic PM | fpag14 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 |
| | Emerson DC primary PM | fpag15 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 |
| | Emerson DC secondary PM | fpag16 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 |
| PWR-6KW-AC-V3 | Delta V3 AC logic PM | fpag11 | 4.01 | 4.01 | 4.01 | 4.01 | 4.04 | 4.04 | 4.04 | 4.04 | 4.04 | 4.04 |
| | Delta V3 AC primary PM | fpag12 | 4.00 | 4.00 | 4.00 | 4.02 | 4.02 | 4.02 | 4.02 | 4.02 | 4.02 | 4.02 |
| | Delta V3 AC secondary PM | fpag13 | 4.01 | 4.01 | 4.01 | 4.03 | 4.03 | 4.03 | 4.03 | 4.03 | 4.03 | 4.03 |
| | Arctel V3 AC logic PM | fpag14 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Arctel V3 AC primary PM | fpag15 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.25 | 1.25 | 1.25 |
| | Arctel V3 AC secondary PM | fpag16 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.29 | 2.29 | 2.29 |
| PWR-4.4KW-DC-V3 | Delta V3 DC logic PM | fpag11 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| | Delta V3 DC primary PM | fpag12 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| | Delta V3 DC secondary PM | fpag13 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| | Arctel V3 DC logic PM | fpag14 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.11 | 1.11 | 1.11 |
| | Arctel V3 DC primary PM | fpag15 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Arctel V3 DC secondary PM | fpag16 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.13 | 2.13 | 2.13 |
| PWR-3KW-HVDC | Delta HVDC logic PM | fpag11 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 |
| | Delta HVDC primary PM | fpag12 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| | Delta HVDC secondary PM | fpag13 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| AKK-1600W-AC | PO-PMCU(A) | | | | | | | | | 17.14 | 17.14 | 17.14 |
| AKK-1600W-DC | PO-PMCU(A) | | | | | | | | | 1.08 | 1.08 | 1.08 |
| Switch Cards | | | | | | | | | | | | |
| ASR-9922-SFC110 | Can Bus Ctrl (CB) MTC | cbsc | 28.06 | 28.06 | 28.06 | 28.06 | 28.06 | 28.06 | 28.06 | 28.06 | 28.06 | 28.06 |
| | Fabric Ch0 MTC | fpag7 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| ASR-9912-SFC110 | Can Bus Ctrl (CB) SFC | cbsc | 32.05 | 32.05 | 32.05 | 32.05 | 32.05 | 32.05 | 32.05 | 32.05 | 32.05 | 32.05 |
| | Fabric Ch0 MTC | fpag7 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| A99-SFC2 | Can Bus Ctrl (CB) MTC | cbsc | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 |
| | Fabric Ch0 MTC | fpag8 | 0.33 | 0.33 | 0.33 | 0.33 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 |
| | Fabric Ch0 MTC | fpag1 | 1.79 | 1.79 | 1.79 | 1.79 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| ASR-9912-SFC220 | Can Bus Ctrl (CB) MTC | cbsc | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 |
| | Fabric Ch0 MTC | fpag8 | 0.33 | 0.33 | 0.33 | 0.33 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 |
| | Fabric Ch0 MTC | fpag1 | 1.79 | 1.79 | 1.79 | 1.79 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| A99-SFC-6 | Can Bus Ctrl (CB) SHFC | cbsc | 44.02 | 44.02 | 44.02 | 44.02 | 44.02 | 44.02 | 44.02 | 44.02 | 44.02 | 44.02 |
| | Fabric Ch0 SHFC | fpag1 | 1.8 | 1.8 | 1.8 | 1.8 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| | Fabric Ch0 SHFC | fpag1 | 1.8 | 1.8 | 1.8 | 1.8 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| | Fabric Ch0 SHFC | fpag1 | 0.32 | 0.32 | 0.32 | 0.32 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 |
| RSPs | | | | | | | | | | | | |
| AKK-RSP440-TR | Can Bus Ctrl (CB) RSP3 | cbsc | 16.116 | 16.116 | 16.116 | 16.116 | 16.116 | 16.116 | 16.116 | 16.116 | 16.117 | 16.117 |
| | CPUCtrl RSP3 | fpag2 | 1.09 | 1.09 | 1.09 | 1.09 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 |
| | UTL RSP3 | fpag3 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 |
| | CACtrl RSP3 | fpag1 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| | ROMMON RSP3 | common | 0.75 | 0.75 | 0.75 | 0.75 | 0.76 | 0.76 | 0.76 | 0.76 | 0.76 | 0.76 |
| AKK-RSP440-SE | Can Bus Ctrl (CB) RSP3 | cbsc | 16.116 | 16.116 | 16.116 | 16.116 | 16.116 | 16.116 | 16.116 | 16.116 | 16.117 | 16.117 |
| | CPUCtrl RSP3 | fpag2 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.1 | 1.1 | 1.1 | 1.1 |
| | UTL RSP3 | fpag3 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 |
| | CACtrl RSP3 | fpag1 | 0.11 | 0.11 | 0.11 | 0.11 | 0.76 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| | ROMMON RSP3 | common | 0.75 | 0.75 | 0.75 | 22.114 | 0.76 | 0.76 | 0.76 | 0.76 | 0.76 | 0.76 |
| ASR9001-RP | ROMMON BI RP | common | 22.114 | 22.114 | 22.114 | 22.114 | 3.04 | 3.04 | 3.04 | 3.04 | 3.04 | 3.04 |
| | Can Bus Ctrl (CB) BMRP | cbsc | 1.15 | 1.15 | 1.15 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 |
| | MR CPUCtrl | fpag2 | 2.04 | 2.04 | 2.04 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| ASR-9922-RP-TR | Can Bus Ctrl (CB) MTRP | cbsc | 25.03 | 25.03 | 25.03 | 25.03 | 25.03 | 25.03 | 25.03 | 25.03 | 25.03 | 25.03 |
| | Fabric Ch0 MTC | fpag10 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | Fabric Ch1 MTC | fpag11 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | Fabric Ch2 MTC | fpag12 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | Fabric Ch3 MTC | fpag13 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | CPUCtrl | fpag2 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | CACtrl | fpag3 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| | IntCtrl | fpag4 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | UTL | fpag5 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 |
| | Timer | fpag6 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| | Fabric Ch0 MTC | fpag7 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | Fabric Ch1 MTC | fpag8 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | Fabric Ch2 MTC | fpag9 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | CPUCtrl | fpag1 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| | ROMMON MTRP | common | 5.15 | 5.15 | 5.15 | 5.16 | 5.16 | 5.16 | 5.16 | 5.16 | 5.16 | 5.16 |
| ASR-9900-RP-TR | Can Bus Ctrl (CB) MTRP | cbsc | 25.03 | 25.03 | 25.03 | | | | | | | |

[illegible]

[illegible]

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|---------------|------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | LinuxFW | common | 1.78 | 1.78 | 1.84 | 1.84 | 1.1 | 1.96 | 1.96 | 1.03 | 1.03 | 1.03 | 1.03 |
| | ROMMON LC1 | common | 8.37 | 8.4 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 |
| A99-MOD200-SE | Can Bus Ctrl (CBCL) L2 | cbsc | 39.05 | 39.05 | 39.05 | 39.05 | 39.07 | 39.07 | 39.07 | 39.08 | 39.08 | 39.08 | 39.08 |
| | MB CPUctrl | fpga2 | 1.76 | 1.76 | 1.84 | 1.84 | 1.93 | 1.93 | 1.93 | 1.97 | 1.97 | 1.97 | 1.97 |
| | DRCtrl | fpga10 | 1.17 | 1.17 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.25 | 1.25 | 1.25 | 1.25 |
| | FBSL | nspi | 1.78 | 1.78 | 1.84 | 1.84 | 1.1 | 1.96 | 1.96 | 1.103 | 1.103 | 1.103 | 1.103 |
| | LinuxFW | linuxfw | 1.78 | 1.78 | 1.84 | 1.84 | 1.1 | 1.96 | 1.96 | 1.103 | 1.103 | 1.103 | 1.103 |
| | ROMMON LC1 | common | 8.37 | 8.4 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 |
| A99-MOD200-TR | Can Bus Ctrl (CBCL) L2 | cbsc | 39.05 | 39.05 | 39.05 | 39.05 | 39.07 | 39.07 | 39.07 | 39.08 | 39.08 | 39.08 | 39.08 |
| | MB CPUctrl | fpga2 | 1.76 | 1.76 | 1.84 | 1.84 | 1.93 | 1.93 | 1.93 | 1.97 | 1.97 | 1.97 | 1.97 |
| | DRCtrl | fpga10 | 1.17 | 1.17 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.25 | 1.25 | 1.25 | 1.25 |
| | FBSL | nspi | 1.78 | 1.78 | 1.84 | 1.84 | 1.1 | 1.96 | 1.96 | 1.103 | 1.103 | 1.103 | 1.103 |
| | LinuxFW | linuxfw | 1.78 | 1.78 | 1.84 | 1.84 | 1.1 | 1.96 | 1.96 | 1.103 | 1.103 | 1.103 | 1.103 |
| | ROMMON LC1 | common | 8.37 | 8.4 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 |
| AKK-MOD200-TR | Can Bus Ctrl (CBCL) L2 | cbsc | 39.05 | 39.05 | 39.05 | 39.05 | 39.07 | 39.07 | 39.07 | 39.08 | 39.08 | 39.08 | 39.08 |
| | MB CPUctrl | fpga2 | 1.76 | 1.76 | 1.84 | 1.84 | 1.93 | 1.93 | 1.93 | 1.97 | 1.97 | 1.97 | 1.97 |
| | DRCtrl | fpga10 | 1.17 | 1.17 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.25 | 1.25 | 1.25 | 1.25 |
| | FBSL | nspi | 1.78 | 1.78 | 1.84 | 1.84 | 1.1 | 1.96 | 1.96 | 1.103 | 1.103 | 1.103 | 1.103 |
| | LinuxFW | linuxfw | 1.78 | 1.78 | 1.84 | 1.84 | 1.1 | 1.96 | 1.96 | 1.103 | 1.103 | 1.103 | 1.103 |
| | ROMMON LC1 | common | 8.37 | 8.4 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 |
| AKK-MOD400-SE | Can Bus Ctrl (CBCL) L2 | cbsc | 39.05 | 39.05 | 39.05 | 39.05 | 39.07 | 39.07 | 39.07 | 39.08 | 39.08 | 39.08 | 39.08 |
| | MB CPUctrl | fpga2 | 1.76 | 1.76 | 1.84 | 1.84 | 1.93 | 1.93 | 1.93 | 1.97 | 1.97 | 1.97 | 1.97 |
| | DRCtrl | fpga10 | 1.17 | 1.17 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.25 | 1.25 | 1.25 | 1.25 |
| | FBSL | nspi | 1.78 | 1.78 | 1.84 | 1.84 | 1.1 | 1.96 | 1.96 | 1.103 | 1.103 | 1.103 | 1.103 |
| | LinuxFW | linuxfw | 1.78 | 1.78 | 1.84 | 1.84 | 1.1 | 1.96 | 1.96 | 1.103 | 1.103 | 1.103 | 1.103 |
| | ROMMON LC1 | common | 8.37 | 8.4 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 |
| A99-MOD400-TR | Can Bus Ctrl (CBCL) L2 | cbsc | 39.05 | 39.05 | 39.05 | 39.05 | 39.07 | 39.07 | 39.07 | 39.08 | 39.08 | 39.08 | 39.08 |
| | MB CPUctrl | fpga2 | 1.76 | 1.76 | 1.84 | 1.84 | 1.93 | 1.93 | 1.93 | 1.97 | 1.97 | 1.97 | 1.97 |
| | DRCtrl | fpga10 | 1.17 | 1.17 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.25 | 1.25 | 1.25 | 1.25 |
| | FBSL | nspi | 1.78 | 1.78 | 1.84 | 1.84 | 1.1 | 1.96 | 1.96 | 1.103 | 1.103 | 1.103 | 1.103 |
| | LinuxFW | linuxfw | 1.78 | 1.78 | 1.84 | 1.84 | 1.1 | 1.96 | 1.96 | 1.103 | 1.103 | 1.103 | 1.103 |
| | ROMMON LC1 | common | 8.37 | 8.4 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 |
| AKK-MOD400-TR | Can Bus Ctrl (CBCL) L2 | cbsc | 39.05 | | | | | | | | | | |

| ASR9000 Software / Firmware & Hardware Compatibility Matrix | | | | | | | | | | | | | |
|---|--------------------------|----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Hardware Type | FPD Description | Sub-Type | IOS XR 5.1.0 | IOS XR 5.1.1 | IOS XR 5.1.2 | IOS XR 5.2.0 | IOS XR 5.1.3 | IOS XR 5.2.2 | IOS XR 5.2.4 | IOS XR 5.3.0 | IOS XR 5.3.1 | IOS XR 5.3.2 | IOS XR 5.3.3 |
| ASR-9904-BPID2 | Can Bus Ctrl (CBC) BP2 | cbc | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.10 | 7.104 | 7.104 | 7.104 |
| ASR-9912-BPID2 | Can Bus Ctrl (CBC) BP2 | cbc | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 |
| ASR-9922-BPID2 | Can Bus Ctrl (CBC) BP2 | cbc | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 |
| Unknown | Can Bus Ctrl (CBC) BP2 | cbc | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 |
| Unknown | Can Bus Ctrl (CBC) BP2 | cbc | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 |
| A9K-BPID2-10-SLOT | Can Bus Ctrl (CBC) BP2 | cbc | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 |
| A9K-BPID2-6-SLOT | Can Bus Ctrl (CBC) BP2 | cbc | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 | 7.104 |
| Fan Trays | | | | | | | | | | | | | |
| ASR-9010-FAN | Can Bus Ctrl (CBC) FAN | cbc | 4.02 | 4.02 | 4.02 | 4.02 | 4.02 | 4.02 | 4.02 | 4.02 | 4.02 | 4.02 | 4.02 |
| ASR-9006-FAN | Can Bus Ctrl (CBC) FAN | cbc | 5.02 | 5.02 | 5.02 | 5.02 | 5.02 | 5.02 | 5.02 | 5.02 | 5.02 | 5.02 | 5.03 |
| ASR-9922-FAN | Can Bus Ctrl (CBC) MFAN | cbc | 29.11 | 29.11 | 29.11 | 29.11 | 29.11 | 29.11 | 29.11 | 29.11 | 29.11 | 29.11 | 29.11 |
| ASR-9912-FAN | Can Bus Ctrl (CBC) SFAN | cbc | 31.04 | 31.04 | 31.04 | 31.04 | 31.04 | 31.04 | 31.04 | 31.04 | 31.04 | 31.04 | 31.04 |
| ASR-9910-FAN-V2 | Can Bus Ctrl (CBC) SFAN | cbc | 29.11 | 29.11 | 29.11 | 29.11 | 29.11 | 29.11 | 29.11 | 29.11 | 29.11 | 29.11 | 29.11 |
| ASR-9904-FAN | Can Bus Ctrl (CBC) FAN | cbc | 31.04 | 31.04 | 31.04 | 31.04 | 31.04 | 31.04 | 31.04 | 31.04 | 31.04 | 31.04 | 31.04 |
| ASR-9922-FAN-V2 | Can Bus Ctrl (CBC) MFAN | cbc | x | x | x | 40.04 | x | 40.04 | 40.04 | 40.04 | 40.06 | 40.06 | 40.06 |
| | fpga9 | cbc | x | x | x | 1.102 | x | 1.102 | 1.102 | 1.102 | 1.102 | 1.102 | 2.040 |
| ASR-9001-FAN | Can Bus Ctrl (CBC) FAN | cbc | 24.114 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 |
| ASR-9001-FAN-V2 | Can Bus Ctrl (CBC) FAN | cbc | x | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 | 24.115 |
| Power Supply Module | | | | | | | | | | | | | |
| PWR-3KW-AC-V2 | Delta AC logic PM | fpga11 | x | x | x | 6.04 | x | 6.04 | 6.04 | 6.04 | 6.04 | 6.04 | 6.04 |
| | Delta AC primary PM | fpga12 | x | x | x | 6.02 | x | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 |
| | Delta AC secondary PM | fpga13 | x | x | x | 6.02 | x | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 |
| | Emerson AC logic PM | fpga14 | x | x | x | 3.18 | x | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 |
| | Emerson AC primary PM | fpga15 | x | x | x | 3.06 | x | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 |
| | Emerson AC secondary PM | fpga16 | x | x | x | 3.12 | x | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 |
| PWR-2KW-DC-V2 | Delta DC logic PM | fpga11 | x | x | x | 6.03 | x | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 |
| | Delta DC primary PM | fpga12 | x | x | x | 6.03 | x | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 |
| | Delta DC secondary PM | fpga13 | x | x | x | 6.02 | x | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 |
| | Emerson DC logic PM | fpga14 | x | x | x | 3.19 | x | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 |
| | Emerson DC primary PM | fpga15 | x | x | x | 3.12 | x | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 | 3.12 |
| | Emerson DC secondary PM | fpga16 | x | x | x | 3.19 | x | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 | 3.19 |
| PWR-6KW-AC-V3 | Delta V3 AC logic PM | fpga11 | x | x | x | 1.05 | x | x | x | 1.00 | 1.00 | 1.00 | 4.01 |
| | Delta V3 AC primary PM | fpga12 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 4.00 |
| | Delta V3 AC secondary PM | fpga13 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 4.01 |
| | Acbel V3 AC logic PM | fpga14 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 1.00 |
| | Acbel V3 AC primary PM | fpga15 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 1.00 |
| | Acbel V3 AC secondary PM | fpga16 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 1.00 |
| PWR-4.4KW-DC-V3 | Delta V3 DC logic PM | fpga11 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 3.00 |
| | Delta V3 DC primary PM | fpga12 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 3.00 |
| | Delta V3 DC secondary PM | fpga13 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 3.00 |
| | Acbel V3 DC logic PM | fpga14 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 1.00 |
| | Acbel V3 DC primary PM | fpga15 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 1.00 |
| | Acbel V3 DC secondary PM | fpga16 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 1.00 |
| PWR-3KW-HVDC | Delta HVDC logic PM | fpga11 | x | x | x | x | x | x | x | 2.03 | 2.03 | 2.03 | 2.03 |
| | Delta HVDC primary PM | fpga12 | x | x | x | x | x | x | x | 2.02 | 2.02 | 2.02 | 2.02 |
| | Delta HVDC secondary PM | fpga13 | x | x | x | x | x | x | x | 2.02 | 2.02 | 2.02 | 2.02 |
| Fabric Cards | | | | | | | | | | | | | |
| ASR-9922-SFC110 | Can Bus Ctrl (CBC) MTFC | cbc | 28.05 | 28.06 | 28.06 | 28.06 | 28.06 | 28.06 | 28.06 | 28.06 | 28.06 | 28.06 | 28.06 |
| | Fabric Ctrl0 MTFC | fpga7 | 1.02 | 1.02 | 1.02 | 1.03 | 1.02 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| ASR-9912-SFC110 | Can Bus Ctrl (CBC) SSFC | cbc | 32.04 | 32.05 | 32.05 | 32.05 | 32.05 | 32.05 | 32.05 | 32.05 | 32.05 | 32.05 | 32.05 |
| | Fabric Ctrl0 MTFC | fpga7 | 1.02 | 1.02 | 1.02 | 1.03 | 1.02 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| A99-SFC2 | Can Bus Ctrl (CBC) MTFC | cbc | x | x | x | x | x | x | x | 37.18 | 37.19 | 37.19 | 37.19 |
| | Fabric Ctrl0 MTFC | fcldxw | x | x | x | x | x | x | x | 1.05 | 1.05 | 1.05 | 1.21 |
| | Fabric Ctrl0 MTFC | fcfpga8 | x | x | x | x | x | x | x | 0.12 | 0.12 | 0.12 | 0.19 |
| | Fabric Ctrl0 MTFC | fcfsbl | x | x | x | x | x | x | x | 1.05 | 1.05 | 1.05 | 1.19 |
| ASR-9912-SFC220 | Can Bus Ctrl (CBC) MTFC | cbc | x | x | x | x | x | x | x | 37.18 | 37.19 | 37.19 | 37.19 |
| | Fabric Ctrl0 MTFC | fcldxw | x | x | x | x | x | x | x | 1.05 | 1.05 | 1.21 | 1.21 |
| | Fabric Ctrl0 MTFC | fcfpga8 | x | x | x | x | x | x | x | 0.12 | 0.12 | 0.19 | 0.19 |
| | Fabric Ctrl0 MTFC | fcfsbl | x | x | x | x | x | x | x | 1.05 | 1.05 | 1.19 | 1.19 |
| RSPs | | | | | | | | | | | | | |
| A9K-RSP-4G | Can Bus Ctrl (CBC) RSP2 | cbc | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | CPUCtrl RSP2 | cpd2 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 |
| | IntCtrl RSP2 | fpga2 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| | ClkCtrl RSP2 | fpga3 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 |
| | UTI RSP2 | fpga4 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 |
| | PUNT RSP2 | fpga1 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| | HSBI RSP2 | hsbi | 4.00 | 4.00 | x | x | x | x | x | x | x | x | x |
| | ROMMONB RSP2 | rommon | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| A9K-RSP-8G | Can Bus Ctrl (CBC) RSP2 | cbc | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | CPUCtrl RSP2 | cpd2 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 |
| | IntCtrl RSP2 | fpga2 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| | ClkCtrl RSP2 | fpga3 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 |
| | UTI RSP2 | fpga4 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 |
| | PUNT RSP2 | fpga1 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| | HSBI RSP2 | hsbi | 4.00 | 4.00 | x | x | x | x | x | x | x | x | x |
| | ROMMONB RSP2 | rommon | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| A9K-RSP440-TR | Can Bus Ctrl (CBC) RSP3 | cbc | 16.115 | 16.115 | 16.115 | 16.115 | 16.115 | 16.115 | 16.115 | 16.116 | 16.116 | 16.116 | 16.116 |
| | CPUCtrl0 RSP3 | fpga2 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.09 | 1.09 | 1.09 | 1.09 |
| | UTI RSP3 | fpga3 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 |
| | ClkCtrl RSP3 | fpga1 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 |
| | ROMMONB RSP3 | rommon | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.72 | 0.72 | 0.72 | 0.75 |

| | | | | | | | | | | | | | |
|----------------------|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A9K-RSP440-SE | Can Bus Ctrl (CBC) RSP3 | cbc | 16.115 | 16.115 | 16.115 | 16.115 | 16.115 | 16.115 | 16.115 | 16.116 | 16.116 | 16.116 | 16.116 |
| | CPUCtrl0 RSP3 | fpga2 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.08 | 1.08 | 1.09 | 1.09 | 1.09 |
| | UTIRSP3 | fpga3 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 |
| | ClkCtrl RSP3 | fpga1 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 |
| | ROMMONB RSP3 | rommon | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.73 | 0.72 | 0.72 | 0.75 |
| ASR9001-RP | Can Bus Ctrl (CBC) IMRP | cbc | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 |
| | MB CPUCtrl | fpga2 | 1.14 | 1.14 | 1.14 | 1.15 | 1.14 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| | ROMMONB IM RP | rommon | 2.01 | 2.03 | 2.03 | 2.04 | 2.03 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 |
| ASR9001-S-RP | Can Bus Ctrl (CBC) IMRP | cbc | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 |
| | MB CPUCtrl | fpga2 | 1.14 | 1.14 | 1.14 | 1.15 | 1.14 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| | ROMMONB IM RP | rommon | 2.01 | 2.03 | 2.03 | 2.04 | 2.03 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 |

[illegible]

[illegible]

| | | | | | | | | | | | | | | |
|--------------------|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A9K-16T78-E | Can Bus Ctrl (CBC) LC3 | cbc | | x | | x | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 |
| | CPUCtrl LC3 | cpld1 | | x | | x | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| | PHYCtrl LC3 | cpld2 | | x | | x | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| | LCClkCtrl LC3 | cpld3 | | x | | x | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| | DB CPUCtrl LC3 | cpld4 | | x | | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | PortCtrl LC3 | fpga2 | | x | | x | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| | Raven LC3 | fpga1 | | x | | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | ROMMONB LC3 | rommon | | x | | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| A9K-16T78-L | Can Bus Ctrl (CBC) LC3 | cbc | | x | | x | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 |
| | CPUCtrl LC3 | cpld1 | | x | | x | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| | PHYCtrl LC3 | cpld2 | | x | | x | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| | LCClkCtrl LC3 | cpld3 | | x | | x | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| | DB CPUCtrl LC3 | cpld4 | | x | | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | PortCtrl LC3 | fpga2 | | x | | x | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| | Raven LC3 | fpga1 | | x | | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | ROMMONB LC3 | rommon | | x | | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| A9K-4T16GE-TR | Can Bus Ctrl (CBC) LC4 | cbc | | x | | x | x | x | | x | 41.104 | 41.102 | 41.104 | 41.104 |
| | PortCtrl | fpga2 | | x | | x | x | x | | x | 0.04 | 0.08 | 0.08 | 0.08 |
| | PortCtrl | fpga3 | | x | | x | x | x | | x | 1.00 | 1.00 | 1.00 | 1.00 |
| | MB CPUCtrl | fpga4 | | x | | x | x | x | | x | 0.06 | 0.06 | 0.06 | 0.06 |
| | ROMMONB LC4 | rommon | | x | | x | x | x | | x | 2.13 | 2.13 | 2.13 | 3.03 |
| A9K-4T16GE-SE | Can Bus Ctrl (CBC) LC4 | cbc | | x | | x | x | x | | x | 41.104 | 41.102 | 41.104 | 41.104 |
| | PortCtrl | fpga2 | | x | | x | x | x | | x | 0.04 | 0.08 | 0.08 | 0.08 |
| | PortCtrl | fpga3 | | x | | x | x | x | | x | 1.00 | 1.00 | 1.00 | 1.00 |
| | MB CPUCtrl | fpga4 | | x | | x | x | x | | x | 0.06 | 0.06 | 0.06 | 0.06 |
| | ROMMONB LC4 | rommon | | x | | x | x | x | | x | 2.13 | 2.13 | 2.13 | 3.03 |
| A9K-ISM-100 | Can Bus Ctrl (CBC) LC6 | cbc | 18.08 | | 18.08 | 18.08 | 18.08 | 18.08 | 18.08 | 18.08 | 18.08 | 18.08 | 18.08 | 18.08 |
| | CPUCtrl LC6 | cpld1 | 0.01 | | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| | Maintenance LC6 | fpga2 | 2.13 | | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 |
| | Amistad LC6 | fpga1 | 0.33 | | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| | ROMMONB LC6 | rommon | 1.02 | | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| A9K-24x10GE-SE | Can Bus Ctrl (CBC) LC6 | cbc | 19.111 | | 19.112 | 19.112 | 19.112 | 19.112 | 19.112 | 19.112 | 19.112 | 19.112 | 19.112 | 19.112 |
| | DBCtrl LC6 | fpga2 | 1.03 | | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | LinkCtrl LC6 | fpga3 | 1.01 | | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | LCCPUCtrl LC6 | fpga4 | 1.07 | | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 |
| | ROMMONB LC6 | rommon | 2.00 | | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.13 | 2.13 | 2.13 | 3.03 |
| A9K-24x10GE-TR | Can Bus Ctrl (CBC) LC6 | cbc | 19.111 | | 19.112 | 19.112 | 19.112 | 19.112 | 19.112 | 19.112 | 19.112 | 19.112 | 19.112 | 19.112 |
| | DBCtrl LC6 | fpga2 | 1.03 | | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | LinkCtrl LC6 | fpga3 | 1.01 | | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | LCCPUCtrl LC6 | fpga4 | 1.07 | | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 |
| | ROMMONB LC6 | rommon | 2.00 | | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.13 | 2.13 | 2.13 | 2.13 |
| ASR9001-LC | Can Bus Ctrl (CBC) IMLC | cbc | 23.114 | | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 |
| | DB CPUCtrl | fpga2 | 1.18 | | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 |
| | EP Gambit | fpga3 | 0.08 | | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 1.00 |
| | MB CPUCtrl | fpga4 | 2.07 | | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 |
| | EP Rogue | fpga6 | 1.06 | | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| | EP Sage | fpga7 | 1.02 | | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| | ROMMONB IM LC | rommon | 2.01 | | 2.03 | 2.03 | 2.04 | 2.03 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 |
| | | | | | | | | | | | | | | |
| ASR9001-LC-S | Can Bus Ctrl (CBC) IMLC | cbc | 23.114 | | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 |
| | DB CPUCtrl | fpga2 | 1.18 | | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 |
| | EP Gambit | fpga3 | 0.08 | | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| | MB CPUCtrl | fpga4 | 2.07 | | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 |
| | EP Rogue | fpga6 | 1.06 | | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| | EP Sage | fpga7 | 1.02 | | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| | ROMMONB IM LC | rommon | 2.01 | | 2.03 | 2.03 | 2.04 | 2.03 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 |
| | | | | | | | | | | | | | | |
| A9K-36x10GE-SE | Can Bus Ctrl (CBC) LC6 | cbc | | 15.103 | | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 |
| | DBCtrl LC6 | fpga2 | | 1.01 | | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | LinkCtrl LC6 | fpga3 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | LCCPUCtrl LC6 | fpga4 | | 1.03 | | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | ROMMONB LC6 | rommon | | 2.00 | | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.13 | 2.13 | 2.13 | 3.03 |
| A9K-36x10GE-TR | Can Bus Ctrl (CBC) LC6 | cbc | | 15.103 | | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 |
| | DBCtrl LC6 | fpga2 | | 1.01 | | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | LinkCtrl LC6 | fpga3 | | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | LCCPUCtrl LC6 | fpga4 | | 1.03 | | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | ROMMONB LC6 | rommon | | 2.00 | | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.13 | 2.13 | 2.13 | 3.03 |
| A9K-36x10GE SC7-SE | Can Bus Ctrl (CBC) LC6 | cbc | | x | | x | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 |
| | DBCtrl LC6 | fpga2 | | x | | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | LinkCtrl LC6 | fpga3 | | x | | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | LCCPUCtrl LC6 | fpga4 | | x | | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | ROMMONB LC6 | rommon | | x | | x | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.13 | 2.13 | 3.03 |
| A9K-36x10GE SC7-TR | Can Bus Ctrl (CBC) LC6 | cbc | | x | | x | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 | 15.104 |
| | DBCtrl LC6 | fpga2 | | x | | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | LinkCtrl LC6 | fpga3 | | x | | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | LCCPUCtrl LC6 | fpga4 | | x | | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | ROMMONB LC6 | rommon | | x | | x | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.13 | 2.13 | 3.03 |
| A9K-MOD80-SE | Can Bus Ctrl (CBC) LC4 | cbc | | 20.117 | | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 |
| | DB Ctrl | fpga2 | | 1.04 | | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | MB CPUCtrl | fpga4 | | 1.05 | | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| | ROMMONB LC4 | rommon | | 2.00 | | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.13 | 2.13 | 2.13 | 3.03 |
| A9K-MOD80-TR | Can Bus Ctrl (CBC) LC4 | cbc | | 20.117 | | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 |
| | DB Ctrl | fpga2 | | 1.04 | | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | MB CPUCtrl | fpga4 | | 1.05 | | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| | ROMMONB LC4 | rommon | | 2.00 | | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.13 | 2.13 | 2.13 | 3.03 |
| A9K-MOD160-SE | Can Bus Ctrl (CBC) LC4 | cbc | | 20.117 | | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 | 20.118 |
| | DB Ctrl | fpga2 | | 1.04 | | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | MB CPUCtrl | fpga4 | | 1.05 | | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| | ROMMONB LC4 | rommon | | 2.00 | | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.13 | 2.13 | 2.13 | 3.03 |

[illegible]

| | | | | | | | | | | | | | |
|------------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A9K-2x100GE-SE | Can Bus Ctrl (CBC) LC4 | cbc | 21.110 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 |
| | DB IO FPGA1 | cpd1 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | MB CPUCtrl | fpga2 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 |
| | PortCtrl | fpga3 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| | Imux | fpga4 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | Emux | fpga5 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | 100GIGMAC | fpga6 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 |
| | ROMMONB LC4 | rommon | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.13 | 2.13 | 2.13 | 3.03 |
| | | | | | | | | | | | | | |
| A9K-2x100GE-TR | Can Bus Ctrl (CBC) LC4 | cbc | 21.110 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 |
| | DB IO FPGA1 | cpd1 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | MB CPUCtrl | fpga2 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 |
| | PortCtrl | fpga3 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| | Imux | fpga4 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | Emux | fpga5 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | 100GIGMAC | fpga6 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 |
| | ROMMONB LC4 | rommon | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.13 | 2.13 | 2.13 | 3.03 |
| | | | | | | | | | | | | | |
| A9K-1x100GE-SE | Can Bus Ctrl (CBC) LC4 | cbc | 21.110 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 |
| | DB IO FPGA1 | cpd1 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | MB CPUCtrl | fpga2 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 |
| | PortCtrl | fpga3 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| | Imux | fpga4 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | Emux | fpga5 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | 100GIGMAC | fpga6 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 |
| | ROMMONB LC4 | rommon | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.13 | 2.13 | 2.13 | 3.03 |
| | | | | | | | | | | | | | |
| A9K-1x100GE-TR | Can Bus Ctrl (CBC) LC4 | cbc | 21.110 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 | 21.111 |
| | DB IO FPGA1 | cpd1 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | MB CPUCtrl | fpga2 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 |
| | PortCtrl | fpga3 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| | Imux | fpga4 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | Emux | fpga5 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | 100GIGMAC | fpga6 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 |
| | ROMMONB LC4 | rommon | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.13 | 2.13 | 2.13 | 3.03 |
| | | | | | | | | | | | | | |
| A9K-VSM-500 | Can Bus Ctrl (CBC) | cbc | | 33.02 | 33.03 | 33.05 | 33.03 | 33.05 | 33.05 | 33.05 | 33.05 | 33.05 | 33.05 |
| | DB IO FPGA | fpga1 | | 1.25 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 |
| | BIOS | rommon | | 3.00 | 3.04 | 3.04 | 3.04 | 3.05 | 3.05 | 3.05 | 3.05 | 3.05 | 3.07 |
| | BMC | ibmc | | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 |
| | | | | | | | | | | | | | |
| A9K-40GE-SE | ROMMON | x | x | x | x | x | x | 2.10 | 2.13 | 2.13 | 2.13 | 2.13 | 3.03 |
| | CBC | x | x | x | x | x | x | 41.102 | 41.102 | 41.102 | 41.102 | 41.102 | 41.104 |
| | FPGA2 | x | x | x | x | x | x | 0.04 | 0.08 | 0.04 | 0.08 | 0.08 | 0.08 |
| | FPGA3 | x | x | x | x | x | x | 0.04 | 0.08 | 0.04 | 0.08 | 0.08 | 0.08 |
| | FPGA4 | x | x | x | x | x | x | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| A9K-40GE-TR | ROMMON | x | x | x | x | x | x | 2.10 | 2.13 | 2.13 | 41.102 | 41.102 | 41.104 |
| | CBC | x | x | x | x | x | x | 41.102 | 41.102 | 41.104 | 0.08 | 0.08 | 0.08 |
| | FPGA2 | x | x | x | x | x | x | 0.04 | 0.08 | 0.04 | 0.08 | 0.08 | 0.08 |
| | FPGA3 | x | x | x | x | x | x | 0.04 | 0.08 | 0.04 | 0.06 | 0.06 | 0.06 |
| | FPGA4 | x | x | x | x | x | x | 0.06 | 0.06 | 0.06 | 2.13 | 2.13 | 3.03 |
| A9K-8X100GE-L-SE | Can Bus Ctrl (CBC) LC2 | cbc | x | x | x | x | x | x | x | 38.18 | 38.20 | 38.20 | 38.20 |
| | fsbl LC2 | fsbl | x | x | x | x | x | x | x | 1.06 | 1.11 | 1.11 | 1.78 |
| | Inxw LC2 | inxw | x | x | x | x | x | x | x | 1.06 | 1.11 | 1.11 | 1.78 |
| | IPU LC2 | fpga2 | x | x | x | x | x | x | x | 1.06 | 1.19 | 1.20 | 1.76 |
| | Meldan LC2 | fpga3 | x | x | x | x | x | x | x | 1.03 | 1.03 | 1.03 | 1.03 |
| | Dalla LC2 | fpga4 | x | x | x | x | x | x | x | 1.03 | 1.04 | 1.04 | 1.06 |
| | ROMMONB LC2 | rommon | x | x | x | x | x | x | x | 8.29 | 8.30 | 8.30 | 8.30 |
| | CPAK LR4 | fpga5 | x | x | x | x | x | x | x | 1.16 | 1.16 | 1.16 | 1.16 |
| | CPAK SR10 | fpga6 | x | x | x | x | x | x | x | 2.02 | 2.02 | 2.02 | 2.02 |
| A9K-8X100GE-L-TR | Can Bus Ctrl (CBC) LC2 | cbc | x | x | x | x | x | x | x | 38.18 | 38.20 | 38.20 | 38.20 |
| | fsbl LC2 | fsbl | x | x | x | x | x | x | x | 1.06 | 1.11 | 1.11 | 1.78 |
| | Inxw LC2 | inxw | x | x | x | x | x | x | x | 1.06 | 1.11 | 1.11 | 1.78 |
| | IPU LC2 | fpga2 | x | x | x | x | x | x | x | 1.06 | 1.19 | 1.20 | 1.76 |
| | Meldan LC2 | fpga3 | x | x | x | x | x | x | x | 1.03 | 1.03 | 1.03 | 1.03 |
| | Dalla LC2 | fpga4 | x | x | x | x | x | x | x | 1.03 | 1.04 | 1.04 | 1.06 |
| | ROMMONB LC2 | rommon | x | x | x | x | x | x | x | 8.29 | 8.30 | 8.30 | 8.30 |
| | CPAK LR4 | fpga5 | x | x | x | x | x | x | x | 1.16 | 1.16 | 1.16 | 1.16 |
| | CPAK SR10 | fpga6 | x | x | x | x | x | x | x | 2.02 | 2.02 | 2.02 | 2.02 |
| A9K-8X100GE-SE | Can Bus Ctrl (CBC) LC2 | cbc | x | x | x | x | x | x | x | x | 38.20 | 38.20 | 38.20 |
| | fsbl LC2 | fsbl | x | x | x | x | x | x | x | x | 1.11 | 1.11 | 1.78 |
| | Inxw LC2 | inxw | x | x | x | x | x | x | x | x | 1.11 | 1.11 | 1.78 |
| | IPU LC2 | fpga2 | x | x | x | x | x | x | x | x | 1.19 | 1.20 | 1.76 |
| | Meldan LC2 | fpga3 | x | x | x | x | x | x | x | x | 1.03 | 1.03 | 1.03 |
| | Dalla LC2 | fpga4 | x | x | x | x | x | x | x | x | 1.04 | 1.04 | 1.06 |
| | ROMMONB LC2 | rommon | x | x | x | x | x | x | x | x | 8.30 | 8.30 | 8.30 |
| | CPAK LR4 | fpga5 | x | x | x | x | x | x | x | x | 1.16 | 1.16 | 1.16 |
| | CPAK SR10 | fpga6 | x | x | x | x | x | x | x | x | 2.02 | 2.02 | 2.02 |
| A9K-8X100GE-TR | Can Bus Ctrl (CBC) LC2 | cbc | x | x | x | x | x | x | x | x | 38.20 | 38.20 | 38.20 |
| | fsbl LC2 | fsbl | x | x | x | x | x | x | x | x | 1.11 | 1.11 | 1.78 |
| | Inxw LC2 | inxw | x | x | x | x | x | x | x | x | 1.11 | 1.11 | 1.78 |
| | IPU LC2 | fpga2 | x | x | x | x | x | x | x | x | 1.19 | 1.20 | 1.76 |
| | Meldan LC2 | fpga3 | x | x | x | x | x | x | x | x | 1.03 | 1.03 | 1.03 |
| | Dalla LC2 | fpga4 | x | x | x | x | x | x | x | x | 1.04 | 1.04 | 1.06 |
| | ROMMONB LC2 | rommon | x | x | x | x | x | x | x | x | 8.30 | 8.30 | 8.30 |
| | CPAK LR4 | fpga5 | x | x | x | x | x | x | x | x | 1.16 | 1.16 | 1.16 |
| | CPAK SR10 | fpga6 | x | x | x | x | x | x | x | x | 2.02 | 2.02 | 2.02 |
| A9K-4X100GE-SE | Can Bus Ctrl (CBC) LC2 | cbc | x | x | x | x | x | x | x | x | 38.20 | 38.20 | 38.20 |
| | fsbl LC2 | fsbl | x | x | x | x | x | x | x | x | 1.11 | 1.11 | 1.78 |
| | Inxw LC2 | inxw | x | x | x | x | x | x | x | x | 1.11 | 1.11 | 1.78 |
| | IPU LC2 | fpga2 | x | x | x | x | x | x | x | x | 1.19 | 1.20 | 1.76 |
| | Meldan LC2 | fpga3 | x | x | x | x | x | x | x | x | 1.03 | 1.03 | 1.03 |
| | Dalla LC2 | fpga4 | x | x | x | x | x | x | x | x | 1.04 | 1.04 | 1.06 |
| | ROMMONB LC2 | rommon | x | x | x | x | x | x | x | x | 8.30 | 8.30 | 8.30 |
| | CPAK LR4 | fpga5 | x | x | x | x | x | x | x | x | 1.16 | 1.16 | 1.16 |
| | CPAK SR10 | fpga6 | x | x | x | x | x | x | x | x | 2.02 | 2.02 | 2.02 |

| | | | | | | | | | | | | | | | | | |
|-------------------|------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A9K-4X100GE-TR | Can Bus Ctrl (CBC) LC2 | cbc | | | | | | | | | | | | | 38.20 | 38.20 | 38.20 |
| | fslb LC2 | fslb | x | x | x | x | x | x | x | x | x | x | x | x | 1.11 | 1.11 | 1.78 |
| | lnxfw LC2 | lnxfw | x | x | x | x | x | x | x | x | x | x | x | x | 1.11 | 1.11 | 1.78 |
| | IPU LC2 | fpga2 | x | x | x | x | x | x | x | x | x | x | x | x | 1.19 | 1.20 | 1.76 |
| | Meldan LC2 | fpga3 | x | x | x | x | x | x | x | x | x | x | x | x | 1.03 | 1.03 | 1.03 |
| | Dalla LC2 | fpga4 | x | x | x | x | x | x | x | x | x | x | x | x | 1.04 | 1.04 | 1.06 |
| | ROMMONB LC2 | rommon | x | x | x | x | x | x | x | x | x | x | x | x | 8.30 | 8.30 | 8.30 |
| | CPAK LR4 | fpga5 | x | x | x | x | x | x | x | x | x | x | x | x | 1.16 | 1.16 | 1.16 |
| | CPAK SR10 | fpga6 | x | x | x | x | x | x | x | x | x | x | x | x | 2.02 | 2.02 | 2.02 |
| A9K-MOD400-SE | Can Bus Ctrl (CBC) LC2 | cbc | x | x | x | x | x | x | x | x | x | x | x | x | | 39.05 | 39.05 |
| | MB CPUCtrl | fpga2 | x | x | x | x | x | x | x | x | x | x | x | x | | 1.30 | 1.76 |
| | DBCtrl | fpga10 | x | x | x | x | x | x | x | x | x | x | x | x | | 1.12 | 1.12 |
| | FSBL | fslb | x | x | x | x | x | x | x | x | x | x | x | x | | 1.19 | 1.78 |
| | LinuxFW | lnxfw | x | x | x | x | x | x | x | x | x | x | x | x | | 1.20 | 1.78 |
| | ROMMON LC1 | rommon | x | x | x | x | x | x | x | x | x | x | x | x | | 8.32 | 8.32 |
| A9K-MOD400-TR | Can Bus Ctrl (CBC) LC2 | cbc | x | x | x | x | x | x | x | x | x | x | x | x | | 39.05 | 39.05 |
| | MB CPUCtrl | fpga2 | x | x | x | x | x | x | x | x | x | x | x | x | | 1.30 | 1.76 |
| | DBCtrl | fpga3 | x | x | x | x | x | x | x | x | x | x | x | x | | 1.12 | 1.12 |
| | FSBL | fslb | x | x | x | x | x | x | x | x | x | x | x | x | | 1.19 | 1.78 |
| | LinuxFW | lnxfw | x | x | x | x | x | x | x | x | x | x | x | x | | 1.20 | 1.78 |
| | ROMMON LC1 | rommon | x | x | x | x | x | x | x | x | x | x | x | x | | 8.32 | 8.32 |
| A9K-400G-DWDM-TR | Can Bus Ctrl (CBC) LC4 | cbc | x | x | x | x | x | x | x | x | x | x | x | x | | 42.02 | 42.02 |
| | MB CPUCtrl | fpga2 | x | x | x | x | x | x | x | x | x | x | x | x | | 1.31 | 1.55 |
| | DBCtrl | fpga3 | x | x | x | x | x | x | x | x | x | x | x | x | | 1.03 | 1.03 |
| | DBCtrl | fpga4 | x | x | x | x | x | x | x | x | x | x | x | x | | 1.01 | 1.01 |
| | DBCtrl | fpga5 | x | x | x | x | x | x | x | x | x | x | x | x | | 1.01 | 1.01 |
| | MB CPUCtrl | fpga6 | x | x | x | x | x | x | x | x | x | x | x | x | | 3.33 | 3.34 |
| | DBCtrl | fpga7 | x | x | x | x | x | x | x | x | x | x | x | x | | 35.00 | 41.00 |
| | DBCtrl | fpga8 | x | x | x | x | x | x | x | x | x | x | x | x | | 4.35 | 4.38 |
| | FSBL | fslb | x | x | x | x | x | x | x | x | x | x | x | x | | 1.19 | 1.56 |
| | LinuxFW | lnxfw | x | x | x | x | x | x | x | x | x | x | x | x | | 1.19 | 1.56 |
| | ROMMONB LC1 | rommon | x | x | x | x | x | x | x | x | x | x | x | x | | 8.32 | 8.34 |
| A9K-8X100GE-CM | Can Bus Ctrl (CBC) LC4 | cbc | x | x | x | x | x | x | x | x | x | x | x | x | | 38.18 | 38.18 |
| | MB CPUCtrl | fpga2 | x | x | x | x | x | x | x | x | x | x | x | x | | 1.20 | 1.76 |
| | DBCtrl | fpga3 | x | x | x | x | x | x | x | x | x | x | x | x | | 1.03 | 1.03 |
| | PortCtrl | fpga4 | x | x | x | x | x | x | x | x | x | x | x | x | | 1.03 | 1.06 |
| | CPAK LR4 | fpga5 | x | x | x | x | x | x | x | x | x | x | x | x | | 1.16 | 1.16 |
| | CPAK SR10 | fpga6 | x | x | x | x | x | x | x | x | x | x | x | x | | 2.02 | 2.02 |
| | Fsbl | fslb | x | x | x | x | x | x | x | x | x | x | x | x | | 1.06 | 1.06 |
| | LinuxFW | Lnxfw | x | x | x | x | x | x | x | x | x | x | x | x | | 1.11 | 1.78 |
| | ROMMONB LC1 | rommon | x | x | x | x | x | x | x | x | x | x | x | x | | 8.29 | 8.29 |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| SIPs | | | | | | | | | | | | | | | | | |
| A9K-SIP-500 | Can Bus Ctrl (CBC) LC5 | cbc | x | x | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 |
| | CPUCtrl LC5 | cpld1 | x | x | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| | QFPCPUBridge LC5 | fpga2 | x | x | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 |
| | NPUBarBridge LC5 | fpga1 | x | x | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| | ROMMONB LC5 | rommon | x | x | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| A9K-SIP-700 | Can Bus Ctrl (CBC) LC5 | cbc | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 |
| | CPUCtrl LC5 | cpld1 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| | QFPCPUBridge LC5 | fpga2 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 |
| | NPUBarBridge LC5 | fpga1 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| | ROMMONB LC5 | rommon | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| A9K-SIP-700-8G | Can Bus Ctrl (CBC) LC5 | cbc | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 |
| | CPUCtrl LC5 | cpld1 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| | QFPCPUBridge LC5 | fpga2 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 |
| | NPUBarBridge LC5 | fpga1 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| | ROMMONB LC5 | rommon | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 |
| | | | | | | | | | | | | | | | | | |
| SPAs | | | | | | | | | | | | | | | | | |
| SPA-2XCHOC12/DS0 | SPA FPGA2 swv1.00 | fpga2 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | SPA FPGA swv1.36 | fpga1 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 |
| | SPA ROMMON swv2.2 | rommon | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| SPA-2XOC12-POS | SPA FPGA swv1.00 | fpga1 | x | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-4XOC12-POS | SPA FPGA swv1.00 | fpga1 | x | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-8XOC12-POS | SPA FPGA swv1.00 | fpga1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-1XCHOC48/DS3 | SPA I/O FPGA | fpga2 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | SPA I/O FPGA | fpga3 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | SPA I/O FPGA | fpga1 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 |
| | SPA ROMMON | rommon | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| SPA-1XOC3-ATM-V2 | SPA FPGA swv1.2 | fpga1 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| | SPA FPGA swv2.104 hmv2 | fpga2 | x | x | x | 2.104 | x | 2.104 | 2.104 | 2.104 | 2.104 | 2.104 | 2.104 | 2.104 | 2.104 | 2.104 | 2.104 |
| SPA-2XOC3-ATM-V2 | SPA FPGA swv1.2 | fpga1 | x | x | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| | | | | | | | | | | | | | | | | | |
| SPA-1XOC48POS/RPR | SPA FPGA swv1.101 hmv3 | fpga2 | x | x | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 |
| SPA-2XOC48POS/RPR | SPA FPGA swv1.00 | fpga1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-4XOC48POS/RPR | SPA FPGA swv1.00 | fpga1 | x | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-OC192POS-XFP | SPA FPGA swv1.2 hmv2 | fpga1 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| | SPA FPGA swv1.101 hmv3 | fpga2 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 | 1.101 |
| SPA-4XT3/E3 | SPA E3 Substrate FPGA | fpga2 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | SPA T3 Substrate FPGA | fpga3 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | SPA I/O FPGA | fpga1 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | SPA ROMMON | rommon | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 |

[illegible]

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|--|------------------------|--------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|
| SPA-2XT3/E3 | SPA E3 Subrate FPGA | fpga2 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | SPA T3 Subrate FPGA | fpga3 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | SPA I/O FPGA | fpga1 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | SPA ROMMON | rommon | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 |
| SPA-2XT3/E3-V2 | SPA FPGA swv1.1 hww3 | fpga1 | x | x | x | 1.01 | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | SPA ROMMON | rommon | x | x | x | 1.00 | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-4XT3/E3-V2 | SPA FPGA swv1.1 hww3 | fpga1 | x | x | x | 1.01 | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | SPA ROMMON | rommon | x | x | x | 1.00 | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-1XCHSTM1/OC3 | SPA T3 Subrate FPGA | fpga2 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | SPA I/O FPGA | fpga1 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 |
| | SPA ROMMON | rommon | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 |
| SPA-1XCHSTM1/OC3V2 | SPA I/O FPGA | fpga1 | x | x | x | 1.00 | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | SPA ROMMON | rommon | x | x | x | 1.00 | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-8XOC3-POS | SPA FPGA swv1.0 | fpga1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-4XOC3-POS-V2 | SPA FPGA swv1.0 | fpga1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-4XCT3/DS0 | SPA T3 Subrate FPGA | fpga2 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| | SPA T3 Subrate FPGA | fpga2 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | SPA I/O FPGA | fpga1 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 |
| | SPA ROMMON | rommon | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 |
| SPA-2XCT3/DS0-V2 | SPA I/O FPGA | fpga1 | x | x | x | 1.01 | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | SPA ROMMON | rommon | x | x | x | 1.00 | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-4XCT3/DS0-V2 | SPA I/O FPGA | fpga1 | x | x | x | 1.01 | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | SPA ROMMON | rommon | x | x | x | 1.00 | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-8XCHT1/E1 | SPA I/O FPGA | fpga1 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 |
| | SPA ROMMON | rommon | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 |
| SPA-8XCHT1/E1-V2 | SPA I/O FPGA | fpga1 | x | x | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| | SPA ROMMON | rommon | x | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-4xOC48-POS | SPA FPGA swv1.0 | fpga1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-4xOC12-POS | SPA FPGA swv1.0 | fpga1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-2xOC12-POS | SPA FPGA swv1.0 | fpga1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-1XOC12-ATM-V2 | SPA FPGA swv1.2 | fpga1 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| | SPA FPGA swv2.104 hww2 | fpga2 | x | x | x | 2.104 | x | 2.104 | 2.104 | 2.104 | 2.104 | 2.104 | 2.104 |
| SPA-1XOC3-ATM-V2 | SPA FPGA swv2.02 | fpga1 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| SPA-3XOC3-ATM-V2 | SPA FPGA swv2.104 hww2 | fpga2 | x | x | x | 2.104 | x | 2.104 | 2.104 | 2.104 | 2.104 | 2.104 | 2.104 |
| | SPA FPGA swv1.2 | fpga1 | x | x | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| SPA-24CHT1-CE-ATM | SPA I/O FPGA | fpga1 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 | 2.32 |
| | SPA T3 subrate FPGA | fpga2 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 |
| | SPA ROMMON | rommon | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| SPA-2CHT3-CE-ATM | SPA FPGA SW V2.23 | fpga1 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 |
| | SPA T3 subrate FPGA | fpga2 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 |
| | SPA ROMMON | rommon | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| SPA-1CHOC3-CE-ATM | SPA I/O FPGA | fpga1 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 |
| | SPA OC3 subrate FPGA | fpga2 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 |
| | SPA ROMMON | rommon | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| SPA-10X1GE-V2 | SPA FPGA swv1.10 | fpga1 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 |
| SPA-5X1GE-V2 | SPA FPGA swv1.10 | fpga1 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 |
| SPA-1X10GE-L-V2 | SPA FPGA swv1.9 | fpga1 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 |
| SPA-1X10GE-WL-V2 | SPA FPGA swv1.9 | fpga1 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 |
| MPAs | | | | | | | | | | | | | |
| A9K-MPA-2x10GE | EP I/O FPGA | fpga6 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| A9K-MPA-4x10GE | EP I/O FPGA | fpga6 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| A9K-MPA-20x1GE | EP I/O FPGA | fpga3 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 1.00 | 1.00 | 1.00 |
| A9K-MPA-2X40GE | EP Sage | fpga7 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| A9K-MPA-1X40GE | EP Sage | fpga7 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| A9K-MPA-8X10GE | EP I/O FPGA | fpga8 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.05 | 1.05 | 1.05 | 1.07 |
| A9K-MPA-20X10GE | EP Skyquake | fpga5 | x | x | x | x | x | x | x | x | x | 1.10 | 1.10 |
| Legend: | | | | | | | | | | | | | |
| 'Value' = The recommended firmware version for the particular XR Release | | | | | | | | | | | | | |
| 'X' = Not applicable or relevant to particular XR Release | | | | | | | | | | | | | |
| Notes: | | | | | | | | | | | | | |
| 1. Shipped versions of ROMMON from manufacturing should supersede any previously released versions in software. Always use the latest version of ROMMON. Specifically, do not force downgrade ROMMON versions. | | | | | | | | | | | | | |
| 2. All FPGA, PLD, and ROMMON versions are fully backward compatible. There is no requirement to force downgrade firmware when downgrading software. | | | | | | | | | | | | | |

| ASR9000 Software / Firmware & Hardware Compatibility Matrix | | | | | | | | | | | | | | | | |
|---|-------------------------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Hardware Type | FPD Description | Sub-Type | IOS XR 4.0.4 | IOS XR 4.0.1 | IOS XR 4.0.2 | IOS XR 4.0.3 | IOS XR 4.1.0 | IOS XR 4.1.1 | IOS XR 4.2.0 | IOS XR 4.2.1 | IOS XR 4.2.2 | IOS XR 4.2.3 | IOS XR 4.3.0 | IOS XR 4.3.1 | IOS XR 4.3.2 | IOS XR 4.3.4 |
| A9K-BPID2-6-SLOT | Can Bus Ctrl (CBC) BP2 | cbc | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.103 | 7.103 | 7.103 | 7.103 | 7.103 | 7.103 | 7.103 | 7.103 | 7.103 |
| | Can Bus Ctrl (CBC) BP2 | cbc | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.103 | 7.103 | 7.103 | 7.103 | 7.103 | 7.103 | 7.103 | 7.103 | 7.103 |
| | ASR-9922-BPID2 | cbc | x | x | x | x | x | x | x | x | x | x | x | x | 7.104 | 7.104 |
| ASR-9912-BPID2 | Can Bus Ctrl (CBC) BP2 | cbc | x | x | x | x | x | x | x | x | x | x | x | x | 7.104 | 7.104 |
| Fan Trays | | | | | | | | | | | | | | | | |
| ASR-9010-FAN | Can Bus Ctrl (CBC) FAN | cbc | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.01 | 4.01 | 4.02 | 4.02 | 4.02 | 4.02 | 4.02 |
| ASR-9006-FAN | Can Bus Ctrl (CBC) FAN | cbc | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.01 | 5.01 | 5.02 | 5.02 | 5.02 | 5.02 | 5.02 |
| ASR-9001-FAN | Can Bus Ctrl (CBC) FAN | cbc | x | x | x | x | x | x | x | 24.113 | 24.113 | 24.114 | 24.114 | 24.114 | 24.114 | 24.114 |
| ASR-9922-FAN | Can Bus Ctrl (CBC) MFAN | cbc | x | x | x | x | x | x | x | 29.09 | 29.09 | 29.09 | 29.09 | 29.10 | 29.11 | 29.11 |
| ASR-9912-FAN | Can Bus Ctrl (CBC) SFAN | cbc | x | x | x | x | x | x | x | x | x | x | x | x | 31.03 | 31.03 |
| ASR-9010-FAN-V2 | Can Bus Ctrl (CBC) FAN | cbc | x | x | x | x | x | x | x | x | x | 29.09 | 29.09 | 29.09 | 29.11 | 29.11 |
| Fabric Cards | | | | | | | | | | | | | | | | |
| ASR-9922-SFC110 | Can Bus Ctrl (CBC) MTFC | cbc | x | x | x | x | x | x | x | x | 28.03 | 28.03 | 28.03 | 28.03 | 28.05 | 28.05 |
| ASR-9912-SFC110 | Can Bus Ctrl (CBC) SSFC | cbc | x | x | x | x | x | x | x | x | x | x | x | x | 32.04 | 32.04 |
| ASR-9912-SFC110 | Fabric Ctrl0 MTFC | fpga7 | x | x | x | x | x | x | x | x | x | x | x | x | 1.02 | 1.02 |
| RSPs | | | | | | | | | | | | | | | | |
| A9K-RSP-4G | Can Bus Ctrl (CBC) RSP2 | cbc | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | CPUCtrl RSP2 | cp1d2 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 |
| | IntCtrl RSP2 | fpga2 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| | ClickCtrl RSP2 | fpga3 | 1.18 | 1.18 | 1.18 | 1.18 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 |
| | UTL RSP2 | fpga4 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 |
| | PUNT RSP2 | fpga1 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| | HSBI RSP2 | hsbi | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| | ROMMONA RSP2 | rommonA | 1.04 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| | ROMMONB RSP2 | rommon | 1.04 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| A9K-RSP-8G | Can Bus Ctrl (CBC) RSP2 | cbc | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | CPUCtrl RSP2 | cp1d2 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 |
| | IntCtrl RSP2 | fpga2 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| | ClickCtrl RSP2 | fpga3 | 1.18 | 1.18 | 1.18 | 1.18 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 |
| | UTL RSP2 | fpga4 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 |
| | PUNT RSP2 | fpga1 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| A9K-RSP440-TR | Can Bus Ctrl (CBC) RSP3 | cbc | x | x | x | x | x | x | 16.114 | 16.115 | 16.115 | 16.115 | 16.115 | 16.115 | 16.115 | 16.115 |
| | CPUCtrl RSP3 | fpga2 | x | x | x | x | x | x | 0.08 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| | UTL RSP3 | fpga3 | x | x | x | x | x | x | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 |
| | ClickCtrl RSP3 | fpga1 | x | x | x | x | x | x | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 |
| | ROMMONB RSP3 | rommon | x | x | x | x | x | x | 0.46 | 0.51 | 0.61 | 0.62 | 0.70 | 0.70 | 0.71 | 0.71 |
| | | | | | | | | | | | | | | | | |
| A9K-RSP440-SE | Can Bus Ctrl (CBC) RSP3 | cbc | x | x | x | x | x | x | 16.114 | 16.115 | 16.115 | 16.115 | 16.115 | 16.115 | 16.115 | 16.115 |
| | CPUCtrl RSP3 | fpga2 | x | x | x | x | x | x | 0.08 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| | UTL RSP3 | fpga3 | x | x | x | x | x | x | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 |
| | ClickCtrl RSP3 | fpga1 | x | x | x | x | x | x | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 |
| | ROMMONB RSP3 | rommon | x | x | x | x | x | x | 0.46 | 0.51 | 0.61 | 0.62 | 0.70 | 0.70 | 0.71 | 0.71 |
| | | | | | | | | | | | | | | | | |
| ASR9001-RP | Can Bus Ctrl (CBC) IMRP | cbc | x | x | x | x | x | x | x | 22.113 | 22.113 | 22.114 | 22.114 | 22.114 | 22.114 | 22.114 |
| | MB CPUCtrl | fpga2 | x | x | x | x | x | x | x | 1.12 | 1.12 | 1.12 | 1.14 | 1.14 | 1.14 | 1.14 |
| | ROMMONB IM RP | rommon | x | x | x | x | x | x | x | 1.29 | 1.29 | 1.29 | 1.35 | 1.36 | 2.01 | 2.01 |
| ASR9001-S-RP | Can Bus Ctrl (CBC) IMRP | cbc | x | x | x | x | x | x | x | x | x | x | x | 22.114 | 22.114 | 22.114 |
| | MB CPUCtrl | fpga2 | x | x | x | x | x | x | x | x | x | x | x | 1.14 | 1.14 | 1.14 |
| | ROMMONB IM RP | rommon | x | x | x | x | x | x | x | x | x | x | x | 1.36 | 2.01 | 2.01 |
| ASR-9922-RP-TR | Can Bus Ctrl (CBC) MTRP | cbc | x | x | x | x | x | x | x | 25.02 | 25.02 | 25.02 | 25.02 | 25.02 | 25.02 | 25.02 |
| | Fabric Ctrl0 MTFC | fpga10 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | Fabric Ctrl4 MTFC | fpga11 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | Fabric Ctrl5 MTFC | fpga12 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | Fabric Ctrl6 MTFC | fpga13 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | CPUCtrl1 | fpga2 | x | x | x | x | x | x | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | ClickCtrl | fpga3 | x | x | x | x | x | x | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| | IntCtrl | fpga4 | x | x | x | x | x | x | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.04 | 1.04 |
| | UTL | fpga5 | x | x | x | x | x | x | x | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 |
| | Timex | fpga6 | x | x | x | x | x | x | x | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| | Fabric Ctrl0 MTFC | fpga7 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | Fabric Ctrl1 MTFC | fpga8 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | Fabric Ctrl2 MTFC | fpga9 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | CPUCtrl0 | fpga1 | x | x | x | x | x | x | x | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | ROMMONB MTRP | rommon | x | x | x | x | x | x | x | 5.09 | 5.10 | 5.10 | 5.10 | 5.10 | 5.11 | 5.11 |
| | | | | | | | | | | | | | | | | |
| | ASR-9922-RP-SE | Can Bus Ctrl (CBC) MTRP | cbc | x | x | x | x | x | x | x | 25.020 | 25.020 | 25.020 | 25.020 | 25.020 | 25.020 |
| Fabric Ctrl0 MTFC | | fpga10 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| Fabric Ctrl4 MTFC | | fpga11 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| Fabric Ctrl5 MTFC | | fpga12 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| Fabric Ctrl6 MTFC | | fpga13 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| CPUCtrl1 | | fpga2 | x | x | x | x | x | x | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| ClickCtrl | | fpga3 | x | x | x | x | x | x | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| IntCtrl | | fpga4 | x | x | x | x | x | x | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.04 | 1.04 |
| UTL | | fpga5 | x | x | x | x | x | x | x | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 | 4.09 |
| Timex | | fpga6 | x | x | x | x | x | x | x | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Fabric Ctrl0 MTFC | | fpga7 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| Fabric Ctrl1 MTFC | | fpga8 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| Fabric Ctrl2 MTFC | | fpga9 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| CPUCtrl0 | | fpga1 | x | x | x | x | x | x | x | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| ROMMONB MTRP | | rommon | x | x | x | x | x | x | x | 5.09 | 5.10 | 5.10 | 5.10 | 5.10 | 5.11 | 5.11 |
| | | | | | | | | | | | | | | | | |
| ASR-9900-RP-TR | | Can Bus Ctrl (CBC) MTRP | cbc | x | x | x | x | x | x | x | x | x | x | x | x | 25.02 |
| | CPUCtrl0 | fpga1 | x | x | x | x | x | x | x | x | x | x | x | x | 1.04 | 1.04 |
| | ClickCtrl | fpga3 | x | x | x | x | x | x | x | x | x | x | x | x | 1.03 | 1.03 |
| | UTL | fpga5 | x | x | x | x | x | x | x | x | x | x | x | x | 4.09 | 4.09 |
| | Timex | fpga6 | x | x | x | x | x | x | x | x | x | x | x | x | 0.02 | 0.02 |
| | ClickCtrl | fpga4 | x | x | x | x | x | x | x | x | x | x | x | x | 1.04 | 1.04 |
| | Fabric Ctrl3 MTFC | fpga10 | x | x | x | x | x | x | x | x | x | x | x | x | 1.02 | 1.02 |
| | Fabric Ctrl4 MTFC | fpga11 | x | x | x | x | x | x | x | x | x | x | x | x | 1.02 | 1.02 |
| | Fabric Ctrl5 MTFC | fpga12 | x | x | x | x | x | x | x | x | | | | | | |

[illegible]

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|--------------------|------------------------|-------------------------|------------------------|-------|------|------|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A9K-2T20GE-L | Can Bus Ctrl (CBG) LC2 | cbc | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | | |
| | CPUCtrl LC2 | cp1d1 | 0.19 | 0.19 | 0.19 | 0.19 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | |
| | PHYCtrl LC2 | cp1d2 | | | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | | |
| | LCC&CPUCtrl LC2 | cp1d3 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | | |
| | TonCtrl LC2 | tpa2 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | | |
| | Bridge LC2 | tpa1 | 0.42 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | | |
| | HSBI LC2 | hsbi | x | x | x | x | x | x | 3.00 | x | x | x | x | x | x | x | x | | |
| | ROMMONB LC2 | rommon | 1.03 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | | |
| | A9K-16T/8-B | Can Bus Ctrl (CBG) LC3 | cbc | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.06 | 6.06 | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | |
| | | CPUCtrl LC3 | cp1d1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | |
| PHYCtrl LC3 | | cp1d2 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | | |
| LCC&CPUCtrl LC3 | | cp1d3 | 0.01 | 0.01 | 0.01 | 0.01 | 0.10 | 0.10 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | |
| DB CPUCtrl LC3 | | cp1d4 | 1.00 | 1.00 | 1.00 | 1.00 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | | |
| PortCtrl LC3 | | tpa2 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | |
| Sendes Upgrade LC3 | | tpa3 | | | | | | 14.44 | x | x | x | x | x | x | x | x | x | | |
| Rawen LC3 | | tpa1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.02 | 1.02 | 1.02 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | | |
| ROMMONB LC3 | | rommon | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | | |
| A9K-ISM-100 | | Can Bus Ctrl (CBG) LC6 | cbc | x | x | x | x | 0.10 | 0.10 | 18.05 | 18.06 | 18.06 | 18.06 | 18.06 | 18.06 | 18.06 | 18.06 | 18.06 | |
| | CPUCtrl LC6 | cp1d1 | x | x | x | x | 0.10 | 0.10 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | |
| | Maintenance LC6 | tpa2 | x | x | x | x | 0.10 | 0.10 | 2.00 | 2.10 | 2.10 | 2.12 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | | |
| | Amistad LC6 | tpa1 | x | x | x | x | 0.20 | 0.20 | 0.29 | 0.30 | 0.30 | 0.30 | 0.30 | 0.33 | 0.33 | 0.33 | 0.33 | | |
| | ROMMONA LC6 | rommonA | x | x | x | x | 0.10 | 0.10 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | | |
| | ROMMONB LC6 | rommon | x | x | x | x | 0.10 | 0.10 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | | |
| | A9K-24x10GE-SE | Can Bus Ctrl (CBG) LC6 | cbc | x | x | x | x | x | 19.108 | 19.109 | 19.109 | 19.109 | 19.109 | 19.109 | 19.109 | 19.111 | 19.111 | 19.111 | |
| | | DBCtrl LC6 | tpa2 | x | x | x | x | x | 1.01 | 1.02 | 1.02 | 1.02 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | |
| | | LinkCtrl LC6 | tpa3 | x | x | x | x | x | 1.00 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | |
| | | LCCPUCtrl LC6 | tpa4 | x | x | x | x | x | 1.01 | 1.05 | 1.05 | 1.05 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | |
| ROMMONB LC6 | | rommon | x | x | x | x | x | 1.21 | 1.28 | 1.28 | 1.28 | 1.29 | 1.29 | 1.29 | 2.00 | 2.00 | 2.00 | | |
| A9K-24x10GE-TR | | Can Bus Ctrl (CBG) LC6 | cbc | x | x | x | x | x | 19.108 | 19.109 | 19.109 | 19.109 | 19.109 | 19.109 | 19.109 | 19.111 | 19.111 | 19.111 | |
| | | DBCtrl LC6 | tpa2 | x | x | x | x | x | 1.01 | 1.02 | 1.02 | 1.02 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | |
| | | LinkCtrl LC6 | tpa3 | x | x | x | x | x | 1.00 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | |
| | | LCCPUCtrl LC6 | tpa4 | x | x | x | x | x | 1.01 | 1.05 | 1.05 | 1.05 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | |
| | | ROMMONB LC6 | rommon | x | x | x | x | x | 1.21 | 1.28 | 1.28 | 1.28 | 1.29 | 1.29 | 1.29 | 2.00 | 2.00 | 2.00 | |
| | ASR9001-LC | Can Bus Ctrl (CBG) IMLC | cbc | x | x | x | x | x | x | 23.113 | 23.113 | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 | 23.114 | |
| | | DB CPUCtrl | tpa2 | x | x | x | x | x | x | 1.15 | 1.15 | 1.15 | 1.16 | 1.17 | 1.18 | 1.18 | 1.18 | 1.18 | |
| | | EP Gambit | tpa3 | x | x | x | x | x | x | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | |
| | | MB CPUCtrl | tpa4 | x | x | x | x | x | x | 2.05 | 2.05 | 2.06 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | |
| | | EP Rogue | tpa6 | x | x | x | x | x | x | 0.09 | 0.09 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | |
| ROMMONB IM LC | | rommon | x | x | x | x | x | x | 1.30 | 1.30 | 1.30 | 1.35 | 1.36 | 1.36 | 2.01 | 2.01 | 2.01 | | |
| ASR9001-S-LC | | Can Bus Ctrl (CBG) IMLC | cbc | x | x | x | x | x | x | x | x | x | x | x | 23.114 | 23.114 | 23.114 | 23.114 | |
| | | DB CPUCtrl | tpa2 | x | x | x | x | x | x | x | x | x | x | x | 1.17 | 1.18 | 1.18 | 1.18 | |
| | | EP Gambit | tpa3 | x | x | x | x | x | x | x | x | x | x | x | 0.08 | 0.08 | 0.08 | 0.08 | |
| | | MB CPUCtrl | tpa4 | x | x | x | x | x | x | x | x | x | x | x | 2.07 | 2.07 | 2.07 | 2.07 | |
| | EP Rogue | tpa6 | x | x | x | x | x | x | x | x | x | x | x | 1.06 | 1.06 | 1.06 | 1.06 | | |
| | ROMMONB IM LC | rommon | x | x | x | x | x | x | x | x | x | x | x | 1.36 | 2.01 | 2.01 | 2.01 | | |
| | A9K-36x10GE-SE | Can Bus Ctrl (CBG) LC6 | cbc | x | x | x | x | x | x | x | 15.101 | 15.101 | 15.101 | 15.101 | 15.101 | 15.103 | 15.103 | 15.103 | |
| | | DBCtrl LC6 | tpa2 | x | x | x | x | x | x | x | 1.00 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | |
| | | LinkCtrl LC6 | tpa3 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| | | LCCPUCtrl LC6 | tpa4 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | |
| ROMMONB LC6 | | rommon | x | x | x | x | x | x | x | 1.28 | 1.28 | 1.29 | 1.29 | 1.29 | 2.00 | 2.00 | 2.00 | | |
| A9K-36x10GE-TR | | Can Bus Ctrl (CBG) LC6 | cbc | x | x | x | x | x | x | x | 15.101 | 15.101 | 15.101 | 15.101 | 15.101 | 15.103 | 15.103 | 15.103 | |
| | | DBCtrl LC6 | tpa2 | x | x | x | x | x | x | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | |
| | | LinkCtrl LC6 | tpa3 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| | | LCCPUCtrl LC6 | tpa4 | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | |
| | | ROMMONB LC6 | rommon | x | x | x | x | x | x | x | 1.28 | 1.28 | 1.29 | 1.29 | 1.29 | 2.00 | 2.00 | 2.00 | |
| | A9K-MOD80-SE | Can Bus Ctrl (CBG) LC4 | cbc | x | x | x | x | x | x | 20.113 | 20.115 | 20.115 | 20.115 | 20.115 | 20.115 | 20.117 | 20.117 | 20.117 | |
| | | DB Ctrl | tpa2 | x | x | x | x | x | x | 0.05 | 1.01 | 1.01 | 1.01 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | |
| | | MB CPUCtrl | tpa4 | x | x | x | x | x | x | 0.06 | 1.03 | 1.03 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | |
| | | ROMMONB LC4 | rommon | x | x | x | x | x | x | 1.21 | 1.28 | 1.28 | 1.28 | 1.29 | 1.29 | 2.00 | 2.00 | 2.00 | |
| | | A9K-MOD80-TR | Can Bus Ctrl (CBG) LC4 | cbc | x | x | x | x | x | x | 20.113 | 20.115 | 20.115 | 20.115 | 20.115 | 20.115 | 20.117 | 20.117 | 20.117 |
| DB Ctrl | | | tpa2 | x | x | x | x | x | x | 0.05 | 1.01 | 1.01 | 1.01 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | |
| MB CPUCtrl | | | tpa4 | x | x | x | x | x | x | 0.06 | 1.03 | 1.03 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | |
| ROMMONB LC4 | | | rommon | x | x | x | x | x | x | 1.21 | 1.28 | 1.28 | 1.28 | 1.29 | 1.29 | 2.00 | 2.00 | 2.00 | |
| A9K-MOD160-SE | | | Can Bus Ctrl (CBG) LC4 | cbc | x | x | x | x | x | x | 20.113 | 20.115 | 20.115 | 20.115 | 20.115 | 20.115 | 20.117 | 20.117 | 20.117 |
| | | | DB Ctrl | tpa2 | x | x | x | x | x | x | 0.05 | 1.01 | 1.01 | 1.01 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | MB CPUCtrl | | tpa4 | x | x | x | x | x | x | 0.06 | 1.03 | 1.03 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | |
| | ROMMONB LC4 | | rommon | x | x | x | x | x | x | 1.21 | 1.28 | 1.28 | 1.28 | 1.29 | 1.29 | 2.00 | 2.00 | 2.00 | |
| | A9K-MOD160-TR | | Can Bus Ctrl (CBG) LC4 | cbc | x | x | x | x | x | x | 20.113 | 20.115 | 20.115 | 20.115 | 20.115 | 20.115 | 20.117 | 20.117 | 20.117 |
| | | | DB Ctrl | tpa2 | x | x | x | x | x | x | 0.05 | 1.01 | 1.01 | 1.01 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | | MB CPUCtrl | tpa4 | x | x | x | x | x | x | 0.06 | 1.03 | 1.03 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | |
| | | ROMMONB LC4 | rommon | x | x | x | x | x | x | 1.21 | 1.28 | 1.28 | 1.28 | 1.29 | 1.29 | 2.00 | 2.00 | 2.00 | |
| | | A9K-2x100GE-SE | Can Bus Ctrl (CBG) LC4 | cbc | x | x | x | x | x | x | 21.107 | 21.108 | 21.108 | 21.108 | 21.108 | 21.108 | 21.110 | 21.110 | 21.110 |
| | | | DB IO FPGAI | cp1d1 | x | x | x | x | x | x | 1.01 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| MB CPUCtrl | | | tpa2 | x | x | x | x | x | x | 1.02 | 1.07 | 1.07 | 1.07 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | |
| PortCtrl | | | tpa3 | x | x | x | x | x | x | 1.01 | 1.03 | 1.03 | 1.03 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | |
| Imux | | | tpa4 | x | x | x | x | x | x | 1.00 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | |
| Emux | | | tpa5 | x | x | x | x | x | x | 1.01 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | |
| 100GIMAC | tpa6 | | x | x | x | x | x | x | 23.00 | 34.00 | 34.00 | 34.00 | 38.00 | 38.00 | 38.00 | 38.00 | 38.00 | | |
| ROMMONB LC4 | rommon | | x | x | x | x | x | x | 1.22 | 1.28 | 1.28 | 1.28 | 1.29 | 1.29 | 2.00 | 2.00 | 2.00 | | |
| A9K-2x100GE-TR | Can Bus Ctrl (CBG) LC4 | | cbc | x | x | x | x | x | x | 21.107 | 21.108 | 21.108 | 21.108 | 21.108 | 21.108 | 21.110 | 21.110 | 21.110 | |
| | DB IO FPGAI | | cp1d1 | x | x | x | x | x | x | 1.01 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | |
| | MB CPUCtrl | tpa2 | x | x | x | x | x | x | 1.02 | 1.07 | 1.07 | 1.07 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | | |
| | PortCtrl | tpa3 | x | x | x | x | x | x | 1.01 | 1.03 | 1.03 | 1.03 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | | |
| | Imux | tpa4 | x | x | x | x | x | x | 1.00 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | | |
| | Emux | tpa5 | x | x | x | x | x | x | 1.01 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | | |
| | 100GIMAC | tpa6 | x | x | x | x | x | x | 23.00 | 34.00 | 34.00 | 34.00 | 38.00 | 38.00 | 38.00 | 38.00 | 38.00 | | |
| | ROMMONB LC4 | rommon | x | x | x | x | x | x | 1.22 | 1.28 | 1.28 | 1.28 | 1.29 | 1.29 | 2.00 | 2.00 | 2.00 | | |
| | A9K-1x100GE-SE | Can Bus Ctrl (CBG) LC4 | cbc | x | x | x | x | x | x | x | 21.108 | 21.108 | 21.1 | | | | | | |

| SIPs | | | | | | | | | | | | | | | | |
|--------------------|------------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| A9K-SIP-700 | Can Bus Ctrl (CBC) LC5 | cbc | 3.05 | 3.05 | 3.05 | 3.05 | 3.05 | 3.05 | 3.05 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 | 3.06 |
| | CPUCtrl LC5 | cpa1 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| | QFPICBUBridge LC5 | fpqa2 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 |
| | NPUXBaBridge LC5 | fpqa1 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| | HSBI LC5 | hsbi | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| | ROMMONA LC5 | rommonA | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | ROMMONB LC5 | rommon | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| A9K-SIP-700-8G | Can Bus Ctrl (CBC) LC5 | cbc | x | x | x | x | x | x | x | x | x | x | x | 3.06 | 3.06 | 3.06 |
| | CPUCtrl LC5 | cpa1 | x | x | x | x | x | x | x | x | x | x | x | 0.15 | 0.15 | 0.15 |
| | QFPICBUBridge LC5 | fpqa2 | x | x | x | x | x | x | x | x | x | x | x | 5.14 | 5.14 | 5.14 |
| | NPUXBaBridge LC5 | fpqa1 | x | x | x | x | x | x | x | x | x | x | x | 0.23 | 0.23 | 0.23 |
| | HSBI LC5 | hsbi | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| | ROMMONA LC5 | rommonA | x | x | x | x | x | x | x | x | x | x | x | 1.35 | 1.35 | 1.35 |
| | ROMMONB LC5 | rommon | x | x | x | x | x | x | x | x | x | x | x | 1.35 | 1.35 | 1.35 |
| SPAs | | | | | | | | | | | | | | | | |
| SPA-2XCHOC12/DS0 | SPA FPGA swv1.00 | fpqa2 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | SPA FPGA swv1.36 | fpqa1 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 |
| | SPA ROMMON swv2.2 | rommon | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| SPA-8XOC12-POS | SPA FPGA swv1.00 | fpqa1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-1XCHOC48/DS3 | SPA I/O FPGA | fpqa2 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | SPA I/O FPGA | fpqa3 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | SPA I/O FPGA | fpqa1 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 |
| | SPA ROMMON | rommon | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| SPA-2XOC48POS/RPR | SPA FPGA swv1.00 | fpqa1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-OC192POS-XFP | SPA FPGA swv1.2 hrv2 | fpqa1 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| SPA-4XT3/E3 | SPA E3 Substrate FPGA | fpqa2 | x | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | SPA T3 Substrate FPGA | fpqa3 | x | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | SPA I/O FPGA | fpqa1 | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | SPA ROMMON | rommon | x | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 |
| SPA-2XT3/E3 | SPA E3 Substrate FPGA | fpqa2 | x | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | SPA T3 Substrate FPGA | fpqa3 | x | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | SPA I/O FPGA | fpqa1 | x | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| | SPA ROMMON | rommon | x | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 |
| SPA-1XCHSTM1/OC3 | SPA T3 Substrate FPGA | fpqa2 | x | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | SPA I/O FPGA | fpqa1 | x | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 |
| | SPA ROMMON | rommon | x | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 |
| | SPA FPGA swv1.0 | fpqa1 | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-8XOC3-POS | | | | | | | | | | | | | | | | |
| SPA-4XOC3-POS-V2 | SPA FPGA swv1.0 | fpqa1 | x | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-4XCT3/DS0 | SPA T3 Substrate FPGA | fpqa2 | x | x | x | x | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| | SPA T3 Substrate FPGA | fpqa2 | x | x | x | x | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| | SPA I/O FPGA | fpqa1 | x | x | x | x | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 |
| | SPA ROMMON | rommon | x | x | x | x | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 |
| SPA-2XCHT1/E1 | SPA I/O FPGA | fpqa1 | x | x | x | x | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 |
| | SPA ROMMON | rommon | | | | | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 |
| SPA-4XOC48-POS | SPA FPGA swv1.0 | fpqa1 | x | x | x | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-4XOC12-POS | SPA FPGA swv1.0 | fpqa1 | x | x | x | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-2XOC12-POS | SPA FPGA swv1.0 | fpqa1 | x | x | x | x | x | x | x | x | x | x | 1.00 | 1.00 | 1.00 | 1.00 |
| SPA-1XOC12-ATM-V2 | SPA FPGA swv2.02 | fpqa1 | x | x | x | x | x | x | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| SPA-1XOC3-ATM-V2 | SPA FPGA swv2.02 | fpqa1 | x | x | x | x | x | x | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| SPA-1XOC3-ATM-V2 | SPA FPGA swv2.02 | fpqa1 | x | x | x | x | x | x | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 | 2.02 |
| SPA-2XCHT1-CE-ATM | SPA I/O FPGA | fpqa1 | x | x | x | x | x | x | x | x | x | x | 2.32 | 2.32 | 2.32 | 2.32 |
| | SPA T3 substrate FPGA | fpqa2 | x | x | x | x | x | x | x | x | x | x | 1.11 | 1.11 | 1.11 | 1.11 |
| | SPA ROMMON | rommon | x | x | x | x | x | x | x | x | x | x | 1.04 | 1.04 | 1.04 | 1.04 |
| SPA-2XCHT3-CE-ATM | SPA FPGA SWV2.23 | fpqa1 | x | x | x | x | x | x | x | x | x | x | 2.23 | 2.23 | 2.23 | 2.23 |
| | SPA T3 substrate FPGA | fpqa2 | x | x | x | x | x | x | x | x | x | x | 1.11 | 1.11 | 1.11 | 1.11 |
| | SPA ROMMON | rommon | x | x | x | x | x | x | x | x | x | x | 1.04 | 1.04 | 1.04 | 1.04 |
| SPA-1XCHOC3-CE-ATM | SPA I/O FPGA | fpqa1 | x | x | x | x | x | x | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 |
| | SPA OC3 substrate FPGA | fpqa2 | x | x | x | x | x | x | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 |
| | SPA ROMMON | rommon | x | x | x | x | x | x | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| MPAs | | | | | | | | | | | | | | | | |
| A9K-MPA-2x10GE | EP I/O FPGA | fpqa6 | x | x | x | x | x | x | 0.09 | 0.09 | 0.09 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| A9K-MPA-4x10GE | EP I/O FPGA | fpqa6 | x | x | x | x | x | x | 0.09 | 0.09 | 0.09 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
| A9K-MPA-20x1GE | EP I/O FPGA | fpqa3 | x | x | x | x | x | x | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| A9K-MPA-2X40GE | EP Sage | fpqa7 | x | x | x | x | x | x | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| A9K-MPA-1X40GE | EP Sage | fpqa7 | x | x | x | x | x | x | x | x | x | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| A9K-MPA-8X10GE | EP Pcie | fpqa7 | x | x | x | x | x | x | x | x | x | x | x | 0.07 | 1.00 | 1.00 |

Legend:
'Value' = The recommended firmware version for the particular XR Release
'X' = Not applicable or relevant to particular XR Release

Notes:
1. Shipped versions of ROMMON from manufacturing should supersede any previously released versions in software. Always use the latest version of ROMMON. Specifically, do not force downgrade ROMMON versions.
2. All FPGA, PLD, and ROMMON versions are fully backward compatible. There is no requirement to force downgrade firmware when downgrading software.

ASR9000 Software / Firmware & Hardware Compatibility Matrix

| | | | Firmware Software Version | | | | |
|-------------------|-------------------------|----------|---------------------------|--------------|--------------|--------------|--------------|
| Hardware Type | FPD Description | Sub-Type | IOS XR 3.7.2 | IOS XR 3.7.3 | IOS XR 3.9.0 | IOS XR 3.9.1 | IOS XR 3.9.2 |
| | | | | | | | |
| A9K-BPID2-10-SLOT | Can Bus Ctrl (CBC) BP2 | cbc | x | x | x | 7.00 | 7.00 |
| A9K-BPID2-6-SLOT | Can Bus Ctrl (CBC) BP2 | cbc | x | x | x | 7.00 | 7.00 |
| ASR-9922-BPID2 | Can Bus Ctrl (CBC) BP2 | cbc | x | x | x | x | x |
| Fan Trays | | | | | | | |
| ASR-9010-FAN | Can Bus Ctrl (CBC) FAN | cbc | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| ASR-9006-FAN | Can Bus Ctrl (CBC) FAN | cbc | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| ASR-9001-FAN | Can Bus Ctrl (CBC) FAN | cbc | x | x | x | x | x |
| ASR-9922-FAN | Can Bus Ctrl (CBC) MFAN | cbc | x | x | x | x | x |
| Fabric Cards | | | | | | | |
| ASR-9922-SFC110 | Can Bus Ctrl (CBC) MTFC | cbc | x | x | x | x | x |
| RSPs | | | | | | | |
| A9K-RSP-4G | Can Bus Ctrl (CBC) RSP2 | cbc | 1.10 | 1.20 | 1.02 | 1.02 | 1.02 |
| | CPUCtrl RSP2 | cpld2 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 |
| | IntCtrl RSP2 | fpga2 | 1.14 | 1.14 | 1.15 | 1.15 | 1.15 |
| | ClkCtrl RSP2 | fpga3 | 1.13 | 1.13 | 1.17 | 1.18 | 1.18 |
| | UTI RSP2 | fpga4 | 1.60 | 1.60 | 3.08 | 3.08 | 3.08 |
| | PUNT RSP2 | fpga1 | 1.40 | 1.40 | 1.05 | 1.05 | 1.05 |
| | HSBI RSP2 | hsbi | x | 1.00 | 3.00 | 4.00 | 4.00 |
| | ROMMONA RSP2 | rommonA | 1.00 | 1.00 | 1.01 | x | x |
| | ROMMONB RSP2 | rommon | 1.00 | 1.00 | 1.02 | 1.04 | 1.04 |
| A9K-RSP-8G | Can Bus Ctrl (CBC) RSP2 | cbc | x | x | 1.02 | 1.02 | 1.02 |
| | CPUCtrl RSP2 | cpld2 | x | x | 1.17 | 1.17 | 1.17 |
| | IntCtrl RSP2 | fpga2 | x | x | 1.15 | 1.15 | 1.15 |
| | ClkCtrl RSP2 | fpga3 | x | x | 1.17 | 1.18 | 1.18 |
| | UTI RSP2 | fpga4 | x | x | 3.08 | 3.08 | 3.08 |
| | PUNT RSP2 | fpga1 | x | x | 1.05 | 1.05 | 1.05 |
| | HSBI RSP2 | hsbi | x | x | 3.00 | 4.00 | 4.00 |
| | ROMMONA RSP2 | rommonA | x | x | 1.01 | x | x |
| | ROMMONB RSP2 | rommon | x | x | 1.02 | 1.04 | 1.04 |
| A9K-RSP440-TR | Can Bus Ctrl (CBC) RSP3 | cbc | x | x | x | x | x |
| | CPUCtrl0 RSP3 | fpga2 | x | x | x | x | x |
| | UTI RSP3 | fpga3 | x | x | x | 1.05 | x |
| | ClkCtrl RSP3 | fpga1 | x | x | x | x | x |
| | ROMMONB RSP3 | rommon | x | x | x | x | x |
| A9K-RSP440-SE | Can Bus Ctrl (CBC) RSP3 | cbc | x | x | x | x | x |
| | CPUCtrl0 RSP3 | fpga2 | x | x | x | x | x |
| | UTI RSP3 | fpga3 | x | x | x | x | x |
| | ClkCtrl RSP3 | fpga1 | x | x | x | x | x |
| | ROMMONB RSP3 | rommon | x | x | x | x | x |
| ASR9001-RP | Can Bus Ctrl (CBC) IMRP | cbc | x | x | x | x | x |
| | MB CPUCtrl | fpga2 | x | x | x | x | x |
| | ROMMONB IM RP | rommon | x | x | x | x | x |
| ASR-9922-RP-TR | Can Bus Ctrl (CBC) MTRP | cbc | x | x | x | x | x |
| | Fabric Ctrl3 MTFC | fpga10 | x | x | x | x | x |
| | Fabric Ctrl4 MTFC | fpga11 | x | x | x | x | x |
| | Fabric Ctrl5 MTFC | fpga12 | x | x | x | x | x |
| | Fabric Ctrl6 MTFC | fpga13 | x | x | x | x | x |
| | CPUCtrl1 | fpga2 | x | x | x | x | x |
| | ClkCtrl | fpga3 | x | x | x | x | x |
| | IntCtrl | fpga4 | x | x | x | x | x |
| | UTI | fpga5 | x | x | x | x | x |
| | Timex | fpga6 | x | x | x | x | x |
| | Fabric Ctrl0 MTFC | fpga7 | x | x | x | x | x |
| | Fabric Ctrl1 MTFC | fpga8 | x | x | x | x | x |
| | Fabric Ctrl2 MTFC | fpga9 | x | x | x | x | x |
| | CPUCtrl0 | fpga1 | x | x | x | x | x |
| | ROMMONB MTRP | rommon | x | x | x | x | x |
| ASR-9922-RP-SE | Can Bus Ctrl (CBC) MTRP | cbc | x | x | x | x | x |
| | Fabric Ctrl3 MTFC | fpga10 | x | x | x | x | x |
| | Fabric Ctrl4 MTFC | fpga11 | x | x | x | x | x |
| | Fabric Ctrl5 MTFC | fpga12 | x | x | x | x | x |
| | Fabric Ctrl6 MTFC | fpga13 | x | x | x | x | x |
| | CPUCtrl1 | fpga2 | x | x | x | x | x |
| | ClkCtrl | fpga3 | x | x | x | x | x |
| | IntCtrl | fpga4 | x | x | x | x | x |
| | UTI | fpga5 | x | x | x | x | x |
| | Timex | fpga6 | x | x | x | x | x |
| | Fabric Ctrl0 MTFC | fpga7 | x | x | x | x | x |
| | Fabric Ctrl1 MTFC | fpga8 | x | x | x | x | x |
| | Fabric Ctrl2 MTFC | fpga9 | x | x | x | x | x |
| | CPUCtrl0 | fpga1 | x | x | x | x | x |
| | ROMMONB MTRP | rommon | x | x | x | x | x |

Line Cards

| | | | | | | | |
|-------------------|------------------------|---------|-------|-------|-------|-------|-------|
| A9K-40GE-B | Can Bus Ctrl (CBC) LC2 | cbc | 2.10 | 2.20 | 2.02 | 2.02 | 2.02 |
| | CPUCtrl LC2 | cp1d1 | 0.15 | 0.15 | 0.19 | 0.19 | 0.19 |
| | PHYCtrl LC2 | cp1d2 | 0.60 | 0.60 | 0.06 | 0.06 | 0.06 |
| | PortCtrl LC2 | fp1ga2 | 0.80 | 0.80 | 0.09 | 0.09 | 0.09 |
| | Bridge LC2 | fp1ga1 | 0.38 | 0.38 | 0.41 | 0.42 | 0.42 |
| | HSBI LC2 | hsbi | x | 1.00 | 3.00 | x | x |
| | ROMMONA LC2 | rommonA | 1.00 | 1.00 | 1.01 | x | x |
| | ROMMONB LC2 | rommon | 1.00 | 1.00 | 1.02 | 1.03 | 1.03 |
| A9K-40GE-E | Can Bus Ctrl (CBC) LC2 | cbc | 2.10 | 2.20 | 2.02 | 2.02 | 2.02 |
| | CPUCtrl LC2 | cp1d1 | 0.15 | 0.15 | 0.19 | 0.19 | 0.19 |
| | PHYCtrl LC2 | cp1d2 | 0.60 | 0.60 | 0.06 | 0.06 | 0.06 |
| | PortCtrl LC2 | fp1ga2 | 0.80 | 0.80 | 0.09 | 0.09 | 0.09 |
| | Bridge LC2 | fp1ga1 | 0.38 | 0.38 | 0.41 | 0.42 | 0.42 |
| | HSBI LC2 | hsbi | x | 1.00 | 3.00 | x | x |
| | ROMMONA LC2 | rommonA | 1.00 | 1.00 | 1.01 | x | x |
| | ROMMONB LC2 | rommon | 1.00 | 1.00 | 1.02 | 1.03 | 1.03 |
| A9K-40GE-L | Can Bus Ctrl (CBC) LC2 | cbc | x | x | 2.02 | 2.02 | 2.02 |
| | CPUCtrl LC2 | cp1d1 | x | x | 0.19 | 0.19 | 0.19 |
| | PHYCtrl LC2 | cp1d2 | x | x | 0.06 | 0.06 | 0.06 |
| | PortCtrl LC2 | fp1ga2 | x | x | 0.09 | 0.09 | 0.09 |
| | Bridge LC2 | fp1ga1 | x | x | 0.41 | 0.42 | 0.42 |
| | HSBI LC2 | hsbi | x | x | 3.00 | x | x |
| | ROMMONB LC2 | rommon | x | x | 1.02 | 1.03 | 1.03 |
| A9K-8T/4-B | Can Bus Ctrl (CBC) LC2 | cbc | 2.10 | 2.20 | 2.02 | 2.02 | 2.02 |
| | CPUCtrl LC2 | cp1d1 | 0.15 | 0.15 | 0.19 | 0.19 | 0.19 |
| | PHYCtrl LC2 | cp1d2 | 0.70 | 0.70 | 0.08 | 0.08 | 0.08 |
| | LCClkCtrl LC2 | cp1d3 | 0.20 | 0.20 | 0.03 | 0.03 | 0.03 |
| | PortCtrl LC2 | fp1ga2 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| | PHY LC2 | fp1ga3 | 14.42 | 14.42 | 14.42 | 14.42 | 14.42 |
| | Bridge LC2 | fp1ga1 | 0.38 | 0.38 | 0.41 | 0.42 | 0.42 |
| | HSBI LC2 | hsbi | x | 1.00 | 3.00 | x | x |
| | ROMMONB LC2 | rommon | 1.00 | 1.00 | 1.02 | 1.03 | 1.03 |
| A9K-8T/4-E | Can Bus Ctrl (CBC) LC2 | cbc | 2.10 | 2.20 | 2.02 | 2.02 | 2.02 |
| | CPUCtrl LC2 | cp1d1 | 0.15 | 0.15 | 0.19 | 0.19 | 0.19 |
| | PHYCtrl LC2 | cp1d2 | 0.70 | 0.70 | 0.08 | 0.08 | 0.08 |
| | LCClkCtrl LC2 | cp1d3 | 0.20 | 0.20 | 0.03 | 0.03 | 0.03 |
| | PortCtrl LC2 | fp1ga2 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| | PHY LC2 | fp1ga3 | 14.42 | 14.42 | 14.42 | 14.42 | 14.42 |
| | Bridge LC2 | fp1ga1 | 0.38 | 0.38 | 0.41 | 0.42 | 0.42 |
| | HSBI LC2 | hsbi | x | 1.00 | 3.00 | x | x |
| | ROMMONB LC2 | rommon | 1.00 | 1.00 | 1.02 | 1.03 | 1.03 |
| A9K-8T/4-L | Can Bus Ctrl (CBC) LC2 | cbc | x | x | 2.02 | 2.02 | 2.02 |
| | CPUCtrl LC2 | cp1d1 | x | x | 0.19 | 0.19 | 0.19 |
| | PHYCtrl LC2 | cp1d2 | x | x | 0.08 | 0.08 | 0.08 |
| | LCClkCtrl LC2 | cp1d3 | x | x | 0.03 | 0.03 | 0.03 |
| | PortCtrl LC2 | fp1ga2 | x | x | 0.10 | 0.10 | 0.10 |
| | Serdes Upgrade LC2 | fp1ga3 | x | x | 14.42 | 14.42 | 14.42 |
| | Bridge LC2 | fp1ga1 | x | x | 0.41 | 0.42 | 0.42 |
| | HSBI LC2 | hsbi | x | x | 3.00 | x | x |
| | ROMMONB LC2 | rommon | x | x | 1.02 | 1.03 | 1.03 |
| A9K-4T-B | Can Bus Ctrl (CBC) LC2 | cbc | 2.10 | 2.20 | 2.02 | 2.02 | 2.02 |
| | CPUCtrl LC2 | cp1d1 | 0.15 | 0.15 | 0.19 | 0.19 | 0.19 |
| | PHYCtrl LC2 | cp1d2 | 0.70 | 0.70 | 0.08 | 0.08 | 0.08 |
| | LCClkCtrl LC2 | cp1d3 | 0.20 | 0.20 | 0.03 | 0.03 | 0.03 |
| | PortCtrl LC2 | fp1ga2 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| | PHY LC2 | fp1ga3 | 14.42 | 14.42 | 14.42 | 14.42 | 14.42 |
| | Bridge LC2 | fp1ga1 | 0.38 | 0.38 | 0.41 | 0.42 | 0.42 |
| | HSBI LC2 | hsbi | x | 1.00 | 3.00 | x | x |
| | ROMMONB LC2 | rommon | 1.00 | 1.00 | 1.02 | 1.03 | 1.03 |
| A9K-4T-E | Can Bus Ctrl (CBC) LC2 | cbc | 2.10 | 2.20 | 2.02 | 2.02 | 2.02 |
| | CPUCtrl LC2 | cp1d1 | 0.15 | 0.15 | 0.19 | 0.19 | 0.19 |
| | PHYCtrl LC2 | cp1d2 | 0.70 | 0.70 | 0.08 | 0.08 | 0.08 |
| | LCClkCtrl LC2 | cp1d3 | 0.20 | 0.20 | 0.03 | 0.03 | 0.03 |
| | PortCtrl LC2 | fp1ga2 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| | PHY LC2 | fp1ga3 | 14.42 | 14.42 | 14.42 | 14.42 | 14.42 |
| | Bridge LC2 | fp1ga1 | 0.38 | 0.38 | 0.41 | 0.42 | 0.42 |
| | HSBI LC2 | hsbi | x | 1.00 | 3.00 | x | x |
| | ROMMONB LC2 | rommon | 1.00 | 1.00 | 1.02 | 1.03 | 1.03 |
| A9K-4T-L | Can Bus Ctrl (CBC) LC2 | cbc | x | x | 2.02 | 2.02 | 2.02 |
| | CPUCtrl LC2 | cp1d1 | x | x | 0.19 | 0.19 | 0.19 |
| | PHYCtrl LC2 | cp1d2 | x | x | 0.08 | 0.08 | 0.08 |
| | LCClkCtrl LC2 | cp1d3 | x | x | 0.03 | 0.03 | 0.03 |
| | PortCtrl LC2 | fp1ga2 | x | x | 0.10 | 0.10 | 0.10 |
| | Serdes Upgrade LC2 | fp1ga3 | x | x | 14.42 | 14.42 | 14.42 |
| | Bridge LC2 | fp1ga1 | x | x | 0.41 | 0.42 | 0.42 |
| | HSBI LC2 | hsbi | x | x | 3.00 | x | x |
| | ROMMONB LC2 | rommon | x | x | 1.02 | 1.03 | 1.03 |

| | | | | | | | |
|-----------------------|-------------------------|---------|---|---|------|------|------|
| A9K-8T-B | Can Bus Ctrl (CBC) LC3 | cbc | x | x | x | 6.02 | 6.02 |
| | CPUCtrl LC3 | cp1d1 | x | x | x | 1.00 | 1.00 |
| | PHYCtrl LC3 | cp1d2 | x | x | x | 0.08 | 0.08 |
| | LCCkCtrl LC3 | cp1d3 | x | x | x | 0.03 | 0.03 |
| | DB CPUCtrl LC3 | cp1d4 | x | x | x | 1.00 | 1.00 |
| | PortCtrl LC3 | fpga2 | x | x | x | 0.11 | 0.11 |
| | Serdes Upgrade LC3 | fpga3 | x | | | | |
| | Raven LC3 | fpga1 | x | x | x | 1.00 | 1.00 |
| A9K-8T-E | ROMMONB LC3 | rommon | x | x | x | 1.03 | 1.03 |
| | Can Bus Ctrl (CBC) LC3 | cbc | x | x | 6.02 | 6.02 | 6.02 |
| | CPUCtrl LC3 | cp1d1 | x | x | 0.07 | 1.00 | 1.00 |
| | PHYCtrl LC3 | cp1d2 | x | x | 0.08 | 0.08 | 0.08 |
| | LCCkCtrl LC3 | cp1d3 | x | x | 0.03 | 0.03 | 0.03 |
| | [DB] CPUCtrl LC3 | cp1d4 | x | x | 0.05 | 1.00 | 1.00 |
| | PortCtrl LC3 | fpga2 | x | x | 0.11 | 0.11 | 0.11 |
| | Raven LC3 | fpga1 | x | x | 0.05 | 1.00 | 1.00 |
| A9K-8T-L | HSBI LC3 | hsbi | x | x | 3.00 | x | x |
| | ROMMONB LC3 | rommon | x | x | 1.02 | 1.03 | 1.03 |
| | Can Bus Ctrl (CBC) LC3 | cbc | x | x | 6.02 | 6.02 | 6.02 |
| | CPUCtrl LC3 | cp1d1 | x | x | 0.07 | 1.00 | 1.00 |
| | PHYCtrl LC3 | cp1d2 | x | x | 0.08 | 0.08 | 0.08 |
| | LCCkCtrl LC3 | cp1d3 | x | x | 0.03 | 0.03 | 0.03 |
| | CPUCtrl LC3 | cp1d4 | x | x | 0.05 | 1.00 | 1.00 |
| | PortCtrl LC3 | fpga2 | x | x | 0.11 | 0.11 | 0.11 |
| A9K-2T20GE-B | Raven LC3 | fpga1 | x | x | 0.05 | 1.00 | 1.00 |
| | HSBI LC3 | hsbi | x | x | 3.00 | x | x |
| | ROMMONB LC3 | rommon | x | x | 1.02 | 1.03 | 1.03 |
| | Can Bus Ctrl (CBC) LC2 | cbc | x | x | 2.02 | 2.02 | 2.02 |
| | CPUCtrl LC2 | cp1d1 | x | x | 0.19 | 0.19 | 0.19 |
| | PHYCtrl LC2 | cp1d2 | x | x | 0.09 | 0.11 | 0.11 |
| | LCCkCtrl LC2 | cp1d3 | x | x | 0.09 | 0.09 | 0.09 |
| | PortCtrl LC2 | fpga2 | x | x | 0.16 | 0.16 | 0.16 |
| A9K-2T20GE-E | Bridge LC2 | fpga1 | x | x | 0.41 | 0.42 | 0.42 |
| | HSBI LC2 | hsbi | x | x | 3.00 | x | x |
| | ROMMONB LC2 | rommon | x | x | 1.02 | 1.03 | 1.03 |
| | Can Bus Ctrl (CBC) LC2 | cbc | x | x | 2.02 | 2.02 | 2.02 |
| | CPUCtrl LC2 | cp1d1 | x | x | 0.19 | 0.19 | 0.19 |
| | PHYCtrl LC2 | cp1d2 | x | x | 0.09 | 0.11 | 0.11 |
| | LCCkCtrl LC2 | cp1d3 | x | x | 0.09 | 0.09 | 0.09 |
| | PortCtrl LC2 | fpga2 | x | x | 0.16 | 0.16 | 0.16 |
| A9K-2T20GE-L | Bridge LC2 | fpga1 | x | x | 0.41 | 0.42 | 0.42 |
| | HSBI LC2 | hsbi | x | x | 3.00 | x | x |
| | ROMMONB LC2 | rommon | x | x | 1.02 | 1.03 | 1.03 |
| | Can Bus Ctrl (CBC) LC2 | cbc | x | x | 2.02 | 2.02 | 2.02 |
| | CPUCtrl LC2 | cp1d1 | x | x | 0.19 | 0.19 | 0.19 |
| | PHYCtrl LC2 | cp1d2 | x | x | 0.08 | 0.11 | 0.11 |
| | LCCkCtrl LC2 | cp1d3 | x | x | 0.09 | 0.09 | 0.09 |
| | Tomcat LC2 | fpga2 | x | x | 0.16 | 0.16 | 0.16 |
| A9K-16T/8-B | Bridge LC2 | fpga1 | x | x | 0.41 | 0.42 | 0.42 |
| | HSBI LC2 | hsbi | x | x | 3.00 | x | x |
| | ROMMONB LC2 | rommon | x | x | 1.02 | 1.03 | 1.03 |
| | Can Bus Ctrl (CBC) LC3 | cbc | x | x | x | 6.02 | 6.02 |
| | CPUCtrl LC3 | cp1d1 | x | x | x | 1.00 | 1.00 |
| | PHYCtrl LC3 | cp1d2 | x | x | x | 0.04 | 0.04 |
| | LCCkCtrl LC3 | cp1d3 | x | x | x | 0.01 | 0.01 |
| | DB CPUCtrl LC3 | cp1d4 | x | x | x | 1.00 | 1.00 |
| A9K-ISM-100 | PortCtrl LC3 | fpga2 | x | x | x | 0.01 | 0.01 |
| | Serdes Upgrade LC3 | fpga3 | x | | | | |
| | Raven LC3 | fpga1 | x | x | x | 1.00 | 1.00 |
| | ROMMONB LC3 | rommon | x | x | x | 1.03 | 1.03 |
| | Can Bus Ctrl (CBC) LC6 | cbc | x | x | x | x | x |
| | CPUCtrl LC6 | cp1d1 | x | x | x | x | x |
| | Maintenance LC6 | fpga2 | x | x | x | x | x |
| | Amistad LC6 | fpga1 | x | x | x | x | x |
| A9K-24x10GE-SE | ROMMONA LC6 | rommonA | x | x | x | x | x |
| | ROMMONB LC6 | rommon | x | x | x | x | x |
| | Can Bus Ctrl (CBC) LC6 | cbc | x | x | x | x | x |
| | DBCtrl LC6 | fpga2 | x | x | x | x | x |
| | LinkCtrl LC6 | fpga3 | x | x | x | x | x |
| | LCCPUCtrl LC6 | fpga4 | x | x | x | x | x |
| | ROMMONB LC6 | rommon | x | x | x | x | x |
| | Can Bus Ctrl (CBC) LC6 | cbc | x | x | x | x | x |
| A9K-24x10GE-TR | DBCtrl LC6 | fpga2 | x | x | x | x | x |
| | LinkCtrl LC6 | fpga3 | x | x | x | x | x |
| | LCCPUCtrl LC6 | fpga4 | x | x | x | x | x |
| | ROMMONB LC6 | rommon | x | x | x | x | x |
| | Can Bus Ctrl (CBC) IMLC | cbc | x | x | x | x | x |
| | DB CPUCtrl | fpga2 | x | x | x | x | x |
| | EP Gambit | fpga3 | x | x | x | x | x |
| | MB CPUCtrl | fpga4 | x | x | x | x | x |
| ASR9001-LC | EP Rogue | fpga6 | x | x | x | x | x |
| | ROMMONB IM LC | rommon | x | x | x | x | x |
| | EP Sage | fpga7 | x | x | x | x | x |

| | | | | | | | |
|-----------------------|------------------------|---------|---|---|------|------|------|
| A9K-36x10GE-SE | Can Bus Ctrl (CBC) LC6 | cbc | x | x | x | x | x |
| | DBCtrl LC6 | fpga2 | x | x | x | x | x |
| | LinkCtrl LC6 | fpga3 | x | x | x | x | x |
| | LCCPUCtrl LC6 | fpga4 | x | x | x | x | x |
| | ROMMONB LC6 | rommon | x | x | x | x | x |
| A9K-36x10GE-TR | Can Bus Ctrl (CBC) LC6 | cbc | x | x | x | x | x |
| | DBCtrl LC6 | fpga2 | x | x | x | x | x |
| | LinkCtrl LC6 | fpga3 | x | x | x | x | x |
| | LCCPUCtrl LC6 | fpga4 | x | x | x | x | x |
| | ROMMONB LC6 | rommon | x | x | x | x | x |
| A9K-MOD80-SE | Can Bus Ctrl (CBC) LC4 | cbc | x | x | x | x | x |
| | DB Ctrl | fpga2 | x | x | x | x | x |
| | MB CPUCtrl | fpga4 | x | x | x | x | x |
| | ROMMONB LC4 | rommon | x | x | x | x | x |
| A9K-MOD80-TR | Can Bus Ctrl (CBC) LC4 | cbc | x | x | x | x | x |
| | DB Ctrl | fpga2 | x | x | x | x | x |
| | MB CPUCtrl | fpga4 | x | x | x | x | x |
| | ROMMONB LC4 | rommon | x | x | x | x | x |
| A9K-MOD160-SE | Can Bus Ctrl (CBC) LC4 | cbc | x | x | x | x | x |
| | DB Ctrl | fpga2 | x | x | x | x | x |
| | MB CPUCtrl | fpga4 | x | x | x | x | x |
| | ROMMONB LC4 | rommon | x | x | x | x | x |
| A9K-MOD160-TR | Can Bus Ctrl (CBC) LC4 | cbc | x | x | x | x | x |
| | DB Ctrl | fpga2 | x | x | x | x | x |
| | MB CPUCtrl | fpga4 | x | x | x | x | x |
| | ROMMONB LC4 | rommon | x | x | x | x | x |
| A9K-2x100GE-SE | Can Bus Ctrl (CBC) LC4 | cbc | x | x | x | x | x |
| | DB IO FPGA1 | cp1d1 | x | x | x | x | x |
| | MB CPUCtrl | fpga2 | x | x | x | x | x |
| | PortCtrl | fpga3 | x | x | x | x | x |
| | Imux | fpga4 | x | x | x | x | x |
| | Emux | fpga5 | x | x | x | x | x |
| | 100GIGMAC | fpga6 | x | x | x | x | x |
| | ROMMONB LC4 | rommon | x | x | x | x | x |
| | | | | | | | |
| A9K-2x100GE-TR | Can Bus Ctrl (CBC) LC4 | cbc | x | x | x | x | x |
| | DB IO FPGA1 | cp1d1 | x | x | x | x | x |
| | MB CPUCtrl | fpga2 | x | x | x | x | x |
| | PortCtrl | fpga3 | x | x | x | x | x |
| | Imux | fpga4 | x | x | x | x | x |
| | Emux | fpga5 | x | x | x | x | x |
| | 100GIGMAC | fpga6 | x | x | x | x | x |
| | ROMMONB LC4 | rommon | x | x | x | x | x |
| | | | | | | | |
| A9K-1x100GE-SE | Can Bus Ctrl (CBC) LC4 | cbc | x | x | x | x | x |
| | DB IO FPGA1 | cp1d1 | x | x | x | x | x |
| | MB CPUCtrl | fpga2 | x | x | x | x | x |
| | PortCtrl | fpga3 | x | x | x | x | x |
| | Imux | fpga4 | x | x | x | x | x |
| | Emux | fpga5 | x | x | x | x | x |
| | 100GIGMAC | fpga6 | x | x | x | x | x |
| | ROMMONB LC4 | rommon | x | x | x | x | x |
| | | | | | | | |
| A9K-1x100GE-TR | Can Bus Ctrl (CBC) LC4 | cbc | x | x | x | x | x |
| | DB IO FPGA1 | cp1d1 | x | x | x | x | x |
| | MB CPUCtrl | fpga2 | x | x | x | x | x |
| | PortCtrl | fpga3 | x | x | x | x | x |
| | Imux | fpga4 | x | x | x | x | x |
| | Emux | fpga5 | x | x | x | x | x |
| | 100GIGMAC | fpga6 | x | x | x | x | x |
| | ROMMONB LC4 | rommon | x | x | x | x | x |
| | | | | | | | |
| SIPs | | | | | | | |
| A9K-SIP-700 | Can Bus Ctrl (CBC) LC5 | cbc | x | x | 3.03 | 3.04 | 3.04 |
| | CPUCtrl LC5 | cp1d1 | x | x | 0.14 | 0.15 | 0.15 |
| | QFPCPUBridge LC5 | fpga2 | x | x | 5.14 | 5.14 | 5.14 |
| | NPUBarBridge LC5 | fpga1 | x | x | 0.22 | 0.22 | 0.22 |
| | HSBI LC5 | hsbi | x | x | 3.00 | x | x |
| | ROMMONA LC5 | rommonA | x | x | 1.02 | x | x |
| | ROMMONB LC5 | rommon | x | x | 1.02 | 1.03 | 1.03 |

| SPAs | | | | | | | |
|-------------------|----------------------|--------|---|---|------|------|------|
| SPA-2XCHOC12/DS0 | SPA FPGA2 swv1.00 | fpga2 | x | x | 1.00 | 1.00 | 1.00 |
| | SPA FPGA swv1.36 | fpga1 | x | x | 1.36 | 1.36 | 1.36 |
| | SPA ROMMON swv2.2 | rommon | x | x | 2.02 | 2.02 | 2.02 |
| SPA-8XOC12-POS | SPA FPGA swv1.00 | fpga1 | x | x | x | x | x |
| SPA-1XCHOC48/DS3 | SPA I/O FPGA | fpga2 | x | x | x | x | x |
| | SPA I/O FPGA | fpga3 | x | x | x | x | x |
| | SPA I/O FPGA | fpga1 | x | x | x | x | x |
| | SPA ROMMON | rommon | x | x | x | x | x |
| SPA-2XOC48POS/RPR | SPA FPGA swv1.00 | fpga1 | x | x | x | x | x |
| SPA-OC192POS-XFP | SPA FPGA swv1.2 hwv2 | fpga1 | x | x | x | x | x |
| SPA-4XT3/E3 | SPA E3 Subrate FPGA | fpga2 | x | x | x | x | x |
| | SPA T3 Subrate FPGA | fpga3 | | | | | |
| | SPA I/O FPGA | fpga1 | | | | | |
| | SPA ROMMON | rommon | | | | | |
| SPA-2XT3/E3 | SPA E3 Subrate FPGA | fpga2 | x | x | x | x | x |
| | SPA T3 Subrate FPGA | fpga3 | | | | | |
| | SPA I/O FPGA | fpga1 | | | | | |
| | SPA ROMMON | rommon | | | | | |
| SPA-1XCHSTM1/OC3 | SPA T3 Subrate FPGA | fpga2 | x | x | x | x | x |
| | SPA I/O FPGA | fpga1 | | | | | |
| | SPA ROMMON | rommon | | | | | |
| SPA-8XOC3-POS | SPA FPGA swv1.0 | fpga1 | x | x | x | x | x |
| SPA-4XOC3-POS-V2 | SPA FPGA swv1.0 | fpga1 | x | x | x | x | x |
| SPA-4XCT3/DS0 | SPA T3 Subrate FPGA | fpga2 | x | x | x | x | x |
| | SPA T3 Subrate FPGA | fpga2 | x | x | x | x | x |
| | SPA I/O FPGA | fpga1 | x | x | x | x | x |
| | SPA ROMMON | rommon | x | x | x | x | x |
| SPA-8XCHT1/E1 | SPA I/O FPGA | fpga1 | x | x | x | x | x |
| | SPA ROMMON | rommon | | | | | |
| A9K-MPA-2x10GE | EP I/O FPGA | fpga6 | x | x | x | x | x |
| A9K-MPA-4x10GE | EP I/O FPGA | fpga6 | x | x | x | x | x |
| A9K-MPA-20x1GE | EP I/O FPGA | fpga3 | x | x | x | x | x |
| A9K-MPA-2X40GE | EP Sage | fpga7 | x | x | x | x | x |
| A9K-MPA-1X40GE | EP Sage | fpga7 | x | x | x | x | x |

Legend:
 'Value' = The recommended frmware version for the particular XR Release
 'X' = Not applicable or relevant to particular XR Release

Notes:
 1. Shipped versions of ROMMON from manufacturing should supersede any previously released versions in software. Always use the latest version of ROMMON. Specifically, do not force downgrade ROMMON versions.
 2. All FPGA, PLD, and ROMMON versions are fully backward compatible. There is no requirement to force downgrade firmware when downgrading software.