

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 and 6.x.x
releases.

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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 6.2.3	IOS XR 6.3.1	IOS XR 6.4.1	IOS XR 6.4.2
BPID										
ASR-9904-BPID2	Can Bus Ctrl (CBC) BP2	cbc	7.104	7.104	7.105	7.105	7.105	7.105	7.105	7.105
ASR-9912-BPID2	Can Bus Ctrl (CBC) BP2	cbc	7.104	7.104	7.105	7.105	7.105	7.105	7.105	7.105
ASR-9922-BPID2	Can Bus Ctrl (CBC) BP2	cbc	7.104	7.104	7.105	7.105	7.105	7.105	7.105	7.105
A9K-BPID2-E-10-SLOT	Can Bus Ctrl (CBC) BP2	cbc	7.104	7.104	7.105	7.105	7.105	7.105	7.105	7.105
A9K-BPID2-E-6-SLOT	Can Bus Ctrl (CBC) BP2	cbc	7.104	7.104	7.105	7.105	7.105	7.105	7.105	7.105
A9K-BPID2-10-SLOT	Can Bus Ctrl (CBC) BP2	cbc	7.104	7.104	7.105	7.105	7.105	7.105	7.105	7.105
A9K-BPID2-6-SLOT	Can Bus Ctrl (CBC) BP2	cbc	7.104	7.104	7.105	7.105	7.105	7.105	7.105	7.105
ASR-9910-BPID2	Can Bus Ctrl (CBC) BP2	cbc	7.104	7.104	7.105	7.105	7.105	7.105	7.105	7.105
Fan Trays										
ASR-9010-FAN	Can Bus Ctrl (CBC) FAN	cbc	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
ASR-9006-FAN	Can Bus Ctrl (CBC) FAN	cbc	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04
ASR-9922-FAN	Can Bus Ctrl (CBC) MFAN	cbc	29.12	29.12	29.12	29.12	29.12	29.12	29.12	29.12
ASR-9912-FAN	Can Bus Ctrl (CBC) SFAN	cbc	31.05	31.05	31.05	31.05	31.05	31.05	31.05	31.05
ASR-9010-FAN-V2	Can Bus Ctrl (CBC) FAN	cbc	29.12	29.12	29.12	29.12	29.12	29.12	29.12	29.12
ASR-9904-FAN	Can Bus Ctrl (CBC) SFAN	cbc	31.05	31.05	31.05	31.05	31.05	31.05	31.05	31.05
ASR-9922-FAN-V2	Can Bus Ctrl (CBC) MFAN	cbc	40.07	40.07	40.07	40.07	40.07	40.07	40.07	40.07
	fpga9	fpga9	2.04	2.04	2.04	2.04	2.06	2.06	2.06	2.06
ASR-9001-FAN	Can Bus Ctrl (CBC) FAN	cbc	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	24.115	24.115	24.115	24.115	24.115	24.115	24.115	24.115
ASR-9910-FAN	Can Bus Ctrl (CBC) SHFAN	cbc	45.020	45.020	45.020	45.020	45.020	45.020	45.020	45.020
	Fan Controller SHFAN	fpga9	2.060	2.060	2.060	2.060	2.060	2.060	2.060	2.060
ASR-9006-FAN-V2	Can Bus Ctrl (CBC) FAN	cbc	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	fpga11	6.04	6.04	6.04	6.04	6.04	6.04	6.04	6.04
	Delta AC primary PM	fpga12	6.02	6.02	6.02	6.02	6.02	6.02	6.02	6.02
	Delta AC secondary PM	fpga13	6.02	6.02	6.02	6.02	6.02	6.02	6.02	6.02
	Emerson AC logic PM	fpga14	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18
	Emerson AC primary PM	fpga15	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06
	Emerson AC secondary PM	fpga16	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12
PWR-2KW-DC-V2	Delta DC logic PM	fpga11	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03
	Delta DC primary PM	fpga12	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.03
	Delta DC secondary PM	fpga13	6.02	6.02	6.02	6.02	6.02	6.02	6.02	6.02
	Emerson DC logic PM	fpga14	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19
	Emerson DC primary PM	fpga15	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12
	Emerson DC secondary PM	fpga16	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	fpga11	4.01	4.01	4.01	4.01	4.04	4.04	4.04	4.04
	Delta V3 AC primary PM	fpga12	4.00	4.00	4.00	4.00	4.02	4.02	4.02	4.02

	ROMMONB MTRP	rommon	5.15	5.15	5.15	5.16	5.16	5.16	5.16	5.16
	Can Bus Ctrl (CBC) MTRP	cbc	25.03	25.03	25.03	25.03	25.03	25.03	25.03	25.03
	Fabric Ctrl3 MTFC	fpga10	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl4 MTFC	fpga11	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl5 MTFC	fpga12	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl6 MTFC	fpga13	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	CPUCtrl1	fpga2	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	ClkCtrl	fpga3	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	IntCtrl	fpga4	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
	UTI	fpga5	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09
	Timex	fpga6	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Fabric Ctrl0 MTFC	fpga7	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl1 MTFC	fpga8	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl2 MTFC	fpga9	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	CPUCtrl0	fpga1	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	ROMMONB MTRP	rommon	5.15	5.15	5.15	5.16	5.16	5.16	5.16	5.16
ASR-9900-RP-TR	Can Bus Ctrl (CBC) MTRP	cbc	25.03	25.03	25.03	25.03	25.03	25.03	25.03	25.03
	Fabric Ctrl3 MTFC	fpga10	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl4 MTFC	fpga11	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl5 MTFC	fpga12	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl6 MTFC	fpga13	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	CPUCtrl1	fpga2	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	ClkCtrl	fpga3	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	IntCtrl	fpga4	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
	UTI	fpga5	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09
	Timex	fpga6	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Fabric Ctrl0 MTFC	fpga7	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl1 MTFC	fpga8	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl2 MTFC	fpga9	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	CPUCtrl0	fpga1	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	ROMMONB MTRP	rommon	5.15	5.15	5.15	5.16	5.16	5.16	5.16	5.16
ASR-9900-RP-SE	Can Bus Ctrl (CBC) MTRP	cbc	25.03	25.03	25.03	25.03	25.03	25.03	25.03	25.03
	Fabric Ctrl3 MTFC	fpga10	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl4 MTFC	fpga11	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl5 MTFC	fpga12	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl6 MTFC	fpga13	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	CPUCtrl1	fpga2	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	ClkCtrl	fpga3	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	IntCtrl	fpga4	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
	UTI	fpga5	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09
	Timex	fpga6	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Fabric Ctrl0 MTFC	fpga7	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl1 MTFC	fpga8	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl2 MTFC	fpga9	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	CPUCtrl0	fpga1	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	ROMMONB MTRP	rommon	5.15	5.15	5.15	5.16	5.16	5.16	5.16	5.16
A9K-RSP880-TR	Can Bus Ctrl (CBC) RSP4	cbc	34.38	34.38	34.38	34.38	34.38	34.38	34.38	34.38
	fsbl RSP4	fsbl	1.80	1.80	1.83	1.103	1.103	1.103	1.103	1.108
	MB CPUCtrl	fpga2	0.42	0.42	0.44	0.63	0.57	0.57	0.57	0.66
	lnxfw RSP4	lnxfw	1.80	1.80	1.83	1.103	1.103	1.103	1.103	1.108
	BrdCtrl RSP4	fpga3	0.14	0.14	0.14	0.16	0.16	0.16	0.16	0.16
	UTI RSP4	fpga4	0.11	0.11	0.11	0.16	0.16	0.16	0.16	0.16
	LcCtrl RSP4	fpga5	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
	DataPath RSP4	fpga6	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.08
	ROMMONB RSP4	rommon	10.47	10.50	10.53	10.59	10.59	10.59	10.59	10.59
A9K-RSP880-SE	Can Bus Ctrl (CBC) RSP4	cbc	34.38	34.38	34.38	34.38	34.38	34.38	34.38	34.38
	fsbl RSP4	fsbl	1.80	1.80	1.83	1.103	1.103	1.103	1.103	1.108
	IPU RSP4	fpga2	0.42	0.42	0.44	0.63	0.57	0.57	0.57	0.66
	lnxfw RSP4	lnxfw	1.80	1.80	1.83	1.103	1.103	1.103	1.103	1.108
	BrdCtrl RSP4	fpga3	0.14	0.14	0.14	0.16	0.16	0.16	0.16	0.16
	UTI RSP4	fpga4	0.11	0.11	0.11	0.16	0.16	0.16	0.16	0.16
	LcCtrl RSP4	fpga5	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
	DataPath RSP4	fpga6	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.08
	ROMMONB RSP4	rommon	10.47	10.50	10.53	10.59	10.59	10.59	10.59	10.59
A99-RP2-TR	Can Bus Ctrl (CBC) RP2	cbc	35.12	35.12	35.12	35.12	35.12	35.12	35.12	35.12
	fsbl RP2	fsbl	1.80	1.80	1.83	1.103	1.103	1.103	1.103	1.108
	IPU RP2	fpga2	0.42	0.42	0.44	0.63	0.57	0.57	0.57	0.66
	lnxfw RP2	lnxfw	1.80	1.80	1.83	1.103	1.103	1.103	1.103	1.108
	BrdCtrl RP2	fpga3	0.14	0.14	0.14	0.16	0.16	0.16	0.16	0.16
	UTI RP2	fpga4	0.11	0.11	0.11	0.16	0.16	0.16	0.16	0.16
	LcCtrl RP2	fpga5	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
	DataPath RP2	fpga6	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.08
	ROMMONB RP2	rommon	14.17	14.20	14.23	14.29	14.29	14.29	14.29	14.29
A99-RP2-SE	Can Bus Ctrl (CBC) RP2	cbc	35.12	35.12	35.12	35.12	35.12	35.12	35.12	35.12
	fsbl RP2	fsbl	1.80	1.80	1.83	1.103	1.103	1.103	1.103	1.108
	IPU RP2	fpga2	0.42	0.42	0.44	0.63	0.57	0.57	0.57	0.66
	lnxfw RP2	lnxfw	1.80	1.80	1.83	1.103	1.103	1.103	1.103	1.108
	BrdCtrl RP2	fpga3	0.14	0.14	0.14	0.16	0.16	0.16	0.16	0.16
	UTI RP2	fpga4	0.11	0.11	0.11	0.16	0.16	0.16	0.16	0.16
	LcCtrl RP2	fpga5	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
	DataPath RP2	fpga6	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.08
	ROMMONB RP2	rommon	14.17	14.20	14.23	14.29	14.29	14.29	14.29	14.29
A9K-RSP440-LT	Can Bus Ctrl (CBC) RSP3	cbc	16.116	16.116	16.116	16.116	16.116	16.116	16.116	16.117
	ClockCtrl0 RSP3	fpga2	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11
	UTI RSP3	fpga3	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09
	CPUCtrl RSP3	fpga1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
	ROMMONB RSP3	rommon	0.75	0.75	0.75	0.75	0.76	0.76	0.76	0.76
A99-RSP-TR	Can Bus Ctrl (CBC) RSP4S	cbc	43.02	43.02	43.02	43.02	43.02	43.02	43.02	43.02
	MB CPUCtrl	fpga2	0.40	0.40	0.40	0.4	0.57	0.57	0.57	0.66
	DBCtrl	fpga3	0.13	0.13	0.14	0.14	0.16	0.16	0.16	0.16
	DBCtrl	fpga4	0.11	0.11	0.11	0.11	0.16	0.16	0.16	0.16
	DBCtrl	fpga5	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12
	PUNT FPGA	fpga6	0.04	0.04	0.50	0.5	0.06	0.06	0.06	0.06
	Fsbl	fsbl	1.81	1.81	1.81	1.81	1.103	1.103	1.103	1.108
	LinuxFW	lnxfw	1.81	1.81	1.81	1.81	1.103	1.103	1.103	1.108
	ROMMONB RSP4SHW	rommon	16.03	16.03	16.03	16.03	16.08	16.08	16.08	16.08
A99-RSP-SE	Can Bus Ctrl (CBC) RSP4S	cbc	43.02	43.02	43.02	43.02	43.02	43.02	43.02	43.02
	MB CPUCtrl	fpga2	0.40	0.40	0.40	0.4	0.57	0.57	0.57	0.66
	DBCtrl	fpga3	0.13	0.13	0.14	0.14	0.16	0.16	0.16	0.16
	DBCtrl	fpga4	0.11	0.11	0.11	0.11	0.16	0.16	0.16	0.16
	DBCtrl	fpga5	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12
	PUNT FPGA	fpga6	0.04	0.04	0.50	0.05	0.06	0.06	0.06	0.06
	Fsbl	fsbl	1.81	1.81	1.81	1.81	1.103	1.103	1.103	1.108
	LinuxFW	lnxfw	1.81	1.81	1.81	1.81	1.103	1.103	1.103	1.108
	ROMMONB RSP4SHW	rommon	16.03	16.03	16.03	16.03	16.08	16.08	16.08	16.08
A9K-RSP880-LT-TR	Can Bus Ctrl (CBC) RSP4L	cbc							50.01	50.01
	fsbl	fsbl							1.104	1.108
	MB CPUCtrl	fpga2							0.14	0.17
	lnxfw RSP4L	lnxfw							1.104	1.108
	BrdCtrl RSP4L	fpga3							0.05	0.05
	UTI RSP4L	fpga4							0.04	0.04
	LcCtrl RSP4L	fpga5							0.04	0.04
	DataPath RSP4L	fpga6							1.11	1.11
	ROMMONB RSP4L	rommon							17.3	17.3

A9K-RSP880-LT-SE	Can Bus Ctrl (CBC) RSP4L	cbc							50.01	50.01
	fsbl	fsbl							1.104	1.108
	MB CPUCtrl	fpga2							0.14	0.17
	lnxfw RSP4L	lnxfw							1.104	1.108
	BrdCtrl RSP4L	fpga3							0.05	0.05
	UTI RSP4L	fpga4							0.04	0.04
	LcCtrl RSP4L	fpga5							0.04	0.04
	DataPath RSP4L	fpga6							1.11	1.11
	ROMMONB RSP4L	rommon							17.3	17.3
ASR-9901-RP	Can Bus Ctrl (CBC) A	cbc							54.08	54.09
	Drax-FPGA(A)								0.27	0.31
	IPU-FPGA(A)								2	2
	IPU-FSBL(A)								1.104	1.104
	IPU-Linux(A)								1.104	1.104
	Primary-BIOS(A)								22.15	23.15
Line Cards										
A9K-24x10GE-SE	Can Bus Ctrl (CBC) LC6	cbc	19.112	19.112	19.112	19.112	19.112	19.112	19.112	19.112
	DBCtrI LC6	fpga2	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
	LCCPUctrl LC6	fpga4	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
	ROMMONB LC6	rommon	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
A9K-24x10GE-TR	Can Bus Ctrl (CBC) LC6	cbc	19.112	19.112	19.112	19.112	19.112	19.112	19.112	19.112
	DBCtrI LC6	fpga2	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
	LCCPUctrl LC6	fpga4	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
	ROMMONB LC6	rommon	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
ASR9001-LC	Can Bus Ctrl (CBC) IMLC	cbc	23.114	23.114	23.114	23.114	23.114	1.00	23.114	23.114
	DB CPUCtrl	fpga2	1.18	1.18	1.18	1.18	1.18	1.03	1.18	1.18
	EP Gambit	fpga3	0.08	0.08	0.08	0.08	1.01	3.03	1.01	1.01
	MB CPUCtrl	fpga4	2.10	2.10	2.10	2.1	2.1	20.118	2.1	2.1
	EP Rogue	fpga6	1.06	1.06	1.06	1.06	1.06	1.04	1.06	1.06
	EP Sage	fpga7	1.02	1.02	1.02	1.02	1.02	1.05	1.02	1.02
	ROMMONB IM LC	rommon	2.04	2.04	2.04	2.04	3.04	3.03	3.04	3.04
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
	DB CPUCtrl	fpga2	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
	EP Gambit	fpga3	1.00	1.00	1.00	1	1.01	1.01	1.01	1.01
	MB CPUCtrl	fpga4	2.10	2.10	2.10	2.1	2.1	2.1	2.1	2.1
	EP Rogue	fpga6	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
	ROMMONB IM LC	rommon	2.04	2.04	2.04	2.04	3.04	3.04	3.04	3.04
A9K-36x10GE-SE	Can Bus Ctrl (CBC) LC6	cbc	15.104	15.104	15.104	15.104	15.104	15.104	15.104	15.104
	DBCtrI LC6	fpga2	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	1	1	1	1
	LCCPUctrl LC6	fpga4	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	ROMMONB LC6	rommon	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
A9K-36x10GE-TR	Can Bus Ctrl (CBC) LC6	cbc	15.104	15.104	15.104	15.104	15.104	15.104	15.104	15.104
	DBCtrI LC6	fpga2	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	1	1	1	1
	LCCPUctrl LC6	fpga4	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	ROMMONB LC6	rommon	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
A9K-36x10GE_SC7-SE	Can Bus Ctrl (CBC) LC6	cbc	15.104	15.104	15.104	15.104	15.104	15.104	15.104	15.104
	DBCtrI LC6	fpga2	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	1	1	1	1
	LCCPUctrl LC6	fpga4	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	ROMMONB LC6	rommon	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
A9K-36x10GE_SC7-TR	Can Bus Ctrl (CBC) LC6	cbc	15.104	15.104	15.104	15.104	15.104	15.104	15.104	15.104
	DBCtrI LC6	fpga2	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	1	1	1	1
	LCCPUctrl LC6	fpga4	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	ROMMONB LC6	rommon	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
A9K-MOD80-SE	Can Bus Ctrl (CBC) LC4	cbc	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
	MB CPUCtrl	fpga4	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	ROMMONB LC4	rommon	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
A9K-MOD80-TR	Can Bus Ctrl (CBC) LC4	cbc	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
	MB CPUCtrl	fpga4	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	ROMMONB LC4	rommon	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
A9K-MOD160-SE	Can Bus Ctrl (CBC) LC4	cbc	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
	MB CPUCtrl	fpga4	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	ROMMONB LC4	rommon	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
A9K-MOD160-TR	Can Bus Ctrl (CBC) LC4	cbc	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
	MB CPUCtrl	fpga4	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	ROMMONB LC4	rommon	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
A9K-2x100GE-SE	Can Bus Ctrl (CBC) LC4	cbc	21.111	21.111	21.111	21.111	21.111	21.111	21.111	21.111
	DB IO FPGA1	cp1d1	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
	PortCtrl	fpga3	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	Imux	fpga4	1.01	1.04	1.04	1.04	1.04	1.04	1.04	1.04
	Emux	fpga5	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04
	100GIGMAC	fpga6	39.00	41.00	41.00	41	41	41	41	41
	ROMMONB LC4	rommon	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
A9K-2x100GE-TR	Can Bus Ctrl (CBC) LC4	cbc	21.111	21.111	21.111	21.111	21.111	21.111	21.111	21.111
	DB IO FPGA1	cp1d1	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
	PortCtrl	fpga3	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	Imux	fpga4	1.01	1.04	1.04	1.04	1.04	1.04	1.04	1.04
	Emux	fpga5	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04
	100GIGMAC	fpga6	39.00	41.00	41.00	41	41	41	41	41
	ROMMONB LC4	rommon	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
A9K-1x100GE-SE	Can Bus Ctrl (CBC) LC4	cbc	21.111	21.111	21.111	21.111	21.111	21.111	21.111	21.111
	DB IO FPGA1	cp1d1	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
	PortCtrl	fpga3	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	Imux	fpga4	1.01	1.04	1.04	1.04	1.04	1.04	1.04	1.04
	Emux	fpga5	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04
	100GIGMAC	fpga6	39.00	41.00	41.00	41	41	41	41	41
	ROMMONB LC4	rommon	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
A9K-1x100GE-TR	Can Bus Ctrl (CBC) LC4	cbc	21.111	21.111	21.111	21.111	21.111	21.111	21.111	21.111
	DB IO FPGA1	cp1d1	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
	PortCtrl	fpga3	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
	Imux	fpga4	1.01	1.04	1.04	1.04	1.04	1.04	1.04	1.04
	Emux	fpga5	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04
	100GIGMAC	fpga6	39.00	41.00	41.00	41	41	41	41	41

	ROMMONB LC4	rommon	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
A9K-VSM-500	Can Bus Ctrl (CBC)	cbc	33.05	33.05	33.05	33.05	33.05	33.05	33.05	33.05	33.05
	DB IO FPGA	fpga1	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
	BIOS	rommon	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07
	BMC	ibmc	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08
A9K-8X100GE-L-SE	Can Bus Ctrl (CBC) LC2	cbc	38.23	38.23	38.23	38.23	38.23	38.23	38.23	38.23	38.23
	fsbl LC2	fsbl	1.78	1.78	1.84	1.84	1.96	1.96	1.96	1.96	1.103
	lnxw LC2	lnxw	1.78	1.78	1.84	1.84	1.96	1.96	1.96	1.96	1.103
	IPU LC2	fpga2	1.76	1.76	1.85	1.85	1.93	1.93	1.93	1.93	1.97
	Meldan LC2	fpga3	1.04	1.04	1.06	1.06	1.07	1.07	1.07	1.07	1.07
	Dalla LC2	fpga4	1.06	1.06	1.09	1.09	1.09	1.09	1.09	1.09	1.09
	ROMMONB LC2	rommon	8.37	8.40	8.43	8.43	8.43	8.43	8.43	8.43	8.43
	CPAK LR4	fpga5					1.16	1.16	1.16	1.16	1.16
	CPAK SR10	fpga6					2.02	2.02	2.02	2.02	2.02
A9K-8X100GE-L-TR	Can Bus Ctrl (CBC) LC2	cbc	38.23	38.23	38.23	38.23	38.23	38.23	38.23	38.23	38.23
	fsbl LC2	fsbl	1.78	1.78	1.84	1.84	1.96	1.96	1.96	1.96	1.103
	lnxw LC2	lnxw	1.78	1.78	1.84	1.84	1.96	1.96	1.96	1.96	1.103
	IPU LC2	fpga2	1.76	1.76	1.85	1.85	1.93	1.93	1.93	1.93	1.97
	Meldan LC2	fpga3	1.04	1.04	1.06	1.06	1.07	1.07	1.07	1.07	1.07
	Dalla LC2	fpga4	1.06	1.06	1.09	1.09	1.09	1.09	1.09	1.09	1.09
	ROMMONB LC2	rommon	8.37	8.40	8.43	8.43	8.43	8.43	8.43	8.43	8.43
	CPAK LR4	fpga5					1.16	1.16	1.16	1.16	1.16
	CPAK SR10	fpga6					2.02	2.02	2.02	2.02	2.02
A9K-8X100GE-SE	Can Bus Ctrl (CBC) LC2	cbc	38.23	38.23	38.23	38.23	38.23	38.23	38.23	38.23	38.23
	fsbl LC2	fsbl	1.78	1.78	1.84	1.84	1.96	1.96	1.96	1.96	1.103
	lnxw LC2	lnxw	1.78	1.78	1.84	1.84	1.96	1.96	1.96	1.96	1.103
	IPU LC2	fpga2	1.76	1.76	1.85	1.85	1.93	1.93	1.93	1.93	1.97
	Meldan LC2	fpga3	1.04	1.04	1.06	1.06	1.07	1.07	1.07	1.07	1.07
	Dalla LC2	fpga4	1.06	1.06	1.09	1.09	1.09	1.09	1.09	1.09	1.09
	ROMMONB LC2	rommon	8.37	8.40	8.43	8.43	8.43	8.43	8.43	8.43	8.43
	CPAK LR4	fpga5					1.16	1.16	1.16	1.16	1.16
	CPAK SR10	fpga6					2.02	2.02	2.02	2.02	2.02
A9K-8X100GE-TR	Can Bus Ctrl (CBC) LC2	cbc	38.23	38.23	38.23	38.23	38.23	38.23	38.23	38.23	38.23
	fsbl LC2	fsbl	1.78	1.78	1.84	1.84	1.96	1.96	1.96	1.96	1.103
	lnxw LC2	lnxw	1.78	1.78	1.84	1.84	1.96	1.96	1.96	1.96	1.103
	IPU LC2	fpga2	1.76	1.76	1.85	1.85	1.93	1.93	1.93	1.93	1.97
	Meldan LC2	fpga3	1.04	1.04	1.06	1.06	1.07	1.07			

A9K-MOD200-TR	Can Bus Ctrl (CBC) LC2	cbc	39.05	39.05	39.05	39.05	39.07	39.07	39.08	39.08
	MB CPUCtrl	fpga2	1.76	1.76	1.84	1.84	1.93	1.93	1.97	1.97
	DBCtrl	fpga10	1.17	1.17	1.19	1.19	1.19	1.19	1.25	1.25
	FSBL	fsbl	1.78	1.78	1.84	1.84	1.96	1.96	1.103	1.103
	LinuxFW	lnxfw	1.78	1.78	1.84	1.84	1.96	1.96	1.103	1.103
	ROMMON LC1	rommon	8.37	8.4	8.43	8.43	8.43	8.43	8.43	8.43
A9K-MOD400-SE	Can Bus Ctrl (CBC) LC2	cbc	39.05	39.05	39.05	39.05	39.07	39.07	39.08	39.08
	MB CPUCtrl	fpga2	1.76	1.76	1.84	1.84	1.93	1.93	1.97	1.97
	DBCtrl	fpga10	1.17	1.17	1.19	1.19	1.19	1.19	1.25	1.25
	FSBL	fsbl	1.78	1.78	1.84	1.84	1.96	1.96	1.103	1.103
	LinuxFW	lnxfw	1.78	1.78	1.84	1.84	1.96	1.96	1.103	1.103
	ROMMON LC1	rommon	8.37	8.4	8.43	8.43	8.43	8.43	8.43	8.43
A99-MOD400-SE	Can Bus Ctrl (CBC) LC2	cbc	39.05	39.05	39.05	39.05	39.07	39.07	39.08	39.08
	MB CPUCtrl	fpga2	1.76	1.76	1.84	1.84	1.93	1.93	1.97	1.97
	DBCtrl	fpga10	1.17	1.17	1.19	1.19	1.19	1.19	1.25	1.25
	FSBL	fsbl	1.78	1.78	1.84	1.84	1.96	1.96	1.103	1.103
	LinuxFW	lnxfw	1.78	1.78	1.84	1.84	1.96	1.96	1.103	1.103
	ROMMON LC1	rommon	8.37	8.4	8.43	8.43	8.43	8.43	8.43	8.43
A99-MOD400-TR	Can Bus Ctrl (CBC) LC2	cbc	39.05	39.05	39.05	39.05	39.07	39.07	39.08	39.08
	MB CPUCtrl	fpga2	1.76	1.76	1.84	1.84	1.93	1.93	1.97	1.97
	DBCtrl	fpga10	1.17	1.17	1.19	1.19	1.19	1.19	1.25	1.25
	FSBL	fsbl	1.78	1.78	1.84	1.84	1.96	1.96	1.103	1.103
	LinuxFW	lnxfw	1.78	1.78	1.84	1.84	1.96	1.96	1.103	1.103
	ROMMON LC1	rommon	8.37	8.4	8.43	8.43	8.43	8.43	8.43	8.43
A9K-MOD400-TR	Can Bus Ctrl (CBC) LC2	cbc	39.05	39.05	39.05	39.05	39.07	39.07	39.08	39.08
	MB CPUCtrl	fpga2	1.76	1.76	1.84	1.84	1.93	1.93	1.97	1.97
	DBCtrl	fpga10	1.17	1.17	1.19	1.19	1.19	1.19	1.25	1.25
	FSBL	fsbl	1.78	1.78	1.84	1.84	1.96	1.96	1.103	1.103
	LinuxFW	lnxfw	1.78	1.78	1.84	1.84	1.96	1.96	1.103	1.103
	ROMMON LC1	rommon	8.37	8.4	8.43	8.43	8.43	8.43	8.43	8.43
A9K-400G-DWDM-TR	Can Bus Ctrl (CBC) LC4	cbc	42.02	42.02	42.02	42.02	42.04	42.04	42.04	42.04
	MB CPUCtrl	fpga2	1.77	1.77	1.84	1.84	1.93	1.93	1.93	1.97
	DBCtrl	fpga3	1.04	1.04	1.06	1.06	1.06	1.06	1.06	1.06
	DBCtrl	fpga4	1.01	1.01	1.03	1.03	1.03	1.03	1.03	1.03
	DBCtrl	fpga5	1.01	1.01	1.05	1.05	1.05	1.05	1.05	1.05
	DBCtrl	fpga6	3.54	3.54	3.56	3.56	3.72	3.72	3.72	3.72
	DBCtrl	fpga7	49	49	49	49	49	49	49	49
	CFP2 V2	fpga8	4.38	4.38	4.38	4.38	5.23	5.23	5.23	5.23
	CFP2 V1	fpga8	4.38	4.38	4.38	4.38	1.93	1.93	4.4	4.4
	FSBL	fsbl	1.78	1.78	1.78	1.78	1.98	1.98	1.103	1.103
	LinuxFW	lnxfw	1.78	1.78	1.84	1.84	1.98	1.98	1.103	1.103
	ROMMONB LC1	rommon	8.37	8.4	8.4	8.4	8.43	8.43	8.43	8.43
A9K-8X100GE-CM	Can Bus Ctrl (CBC) LC4	cbc	38.23	38.23	38.23	38.23	38.23	38.23	38.23	38.23
	MB CPUCtrl	fpga2	1.76	1.76	1.76	1.76	1.93	1.93	1.97	1.97
	DBCtrl	fpga3	1.04	1.04	1.04	1.04	1.07	1.07	1.07	1.07
	PortCtrl	fpga4	1.06	1.06	1.06	1.06	1.09	1.09	1.09	1.09
	CPAK LR4	fpga5	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
	CPAK SR10	fpga6	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02
	Fsbl	fsbl	1.78	1.78	1.78	1.78	1.96	1.96	1.103	1.103
	LinuxFW	lnxfw	1.78	1.78	1.78	1.78	1.96	1.96	1.103	1.103
	ROMMONB LC1	rommon	8.37	8.40	8.40	8.4	8.43	8.43	8.43	8.43
A99-8X100GE-CM	Can Bus Ctrl (CBC) LC4	cbc							46.06	46.06
	MB CPUCtrl	fpga2							1.85	1.85
	DBCtrl	fpga3							1.02	1.02
	PortCtrl	fpga4							1.02	1.02
	Fsbl	fsbl							1.10	1.10
	LinuxFW	lnxfw							1.10	1.10
	ROMMONB LC1	rommon							9.23	9.23
A99-8X100GE-SE	Can Bus Ctrl (CBC) LC4	cbc	38.23	38.23	38.23	38.23	38.23	38.23	38.23	38.23
	MB CPUCtrl	fpga2	1.76	1.76	1.76	1.76	1.93	1.93	1.97	1.97
	DBCtrl	fpga3	1.04	1.04	1.04	1.04	1.07	1.07	1.07	1.07
	PortCtrl	fpga4	1.06	1.06	1.06	1.06	1.09	1.09	1.09	1.09
	CPAK LR4	fpga5	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
	CPAK SR10	fpga6	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02
	Fsbl	fsbl	1.78	1.78	1.78	1.78	1.96	1.96	1.103	1.103
	LinuxFW	lnxfw	1.78	1.78	1.78	1.78	1.96	1.96	1.103	1.103
	ROMMONB LC1	rommon	8.37	8.40	8.40	8.4	8.43	8.43	8.43	8.43
A99-8X100GE-TR	Can Bus Ctrl (CBC) LC4	cbc	38.23	38.23	38.23	38.23	38.23	38.23	38.23	38.23
	MB CPUCtrl	fpga2	1.76	1.76	1.76	1.76	1.93	1.93	1.97	1.97
	DBCtrl	fpga3	1.04	1.04	1.04	1.04	1.07	1.07	1.07	1.07
	PortCtrl	fpga4	1.06	1.06	1.06	1.06	1.09	1.09	1.09	1.09
	CPAK LR4	fpga5	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
	CPAK SR10	fpga6	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02
	Fsbl	fsbl	1.78	1.78	1.78	1.78	1.96	1.96	1.103	1.103
	LinuxFW	lnxfw	1.78	1.78	1.78	1.78	1.96	1.96	1.103	1.103
	ROMMONB LC1	rommon	8.37	8.40	8.40	8.4	8.43	8.43	8.43	8.43
A99-12X100GE	Can Bus Ctrl (CBC) LC4	cbc	46.03	46.06	46.06	46.06	46.06	46.06	46.06	46.06
	MB CPUCtrl	fpga2	1.76	1.78	1.78	1.78	1.8	1.8	1.85	1.85
	DBCtrl	fpga3	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
	PortCtrl	fpga4	1.01	1.02	1.20	1.02	1.02	1.02	1.02	1.02
	Fsbl	fsbl	1.81	1.81	1.81	1.81	1.92	1.92	1.1	1.1
	LinuxFW	lnxfw	1.81	1.81	1.81	1.81	1.92	1.92	1.1	1.1
	ROMMONB LC1	rommon	9.18	9.20	9.21	9.21	9.21	9.21	9.23	9.23
A9K-48X10GE-1G-SE	Can Bus Ctrl (CBC) LC4	cbc					47.02	47.02	47.03	47.03
	MB CPUCtrl	fpga2					1.85	1.85	1.87	1.87
	DBCtrl	fpga3					1.00	1.00	1.00	1.00
	PortCtrl	fpga4					1.04	1.04	1.09	1.1
	Fsbl	fsbl					1.100	1.100	1.104	1.104
	LinuxFW	lnxfw					1.100	1.100	1.104	1.104
	ROMMONB LC1	rommon					18.16	18.16	18.24	18.24
A99-48X10GE-1G-CM	Can Bus Ctrl (CBC) LC4	cbc					47.02	47.02	47.03	47.03
	MB CPUCtrl	fpga2					1.85	1.85	1.87	1.87
	DBCtrl	fpga3					1.00	1.00	1.00	1.00
	PortCtrl	fpga4					1.04	1.04	1.09	1.1
	Fsbl	fsbl					1.100	1.100	1.104	1.104
	LinuxFW	lnxfw					1.100	1.100	1.104	1.104
	ROMMONB LC1	rommon					18.16	18.16	18.24	18.24
A9K-48X10GE-1G-CM	Can Bus Ctrl (CBC) LC4	cbc					47.02	47.02	47.03	47.03
	MB CPUCtrl	fpga2					1.85	1.85	1.87	1.87
	DBCtrl	fpga3					1.00	1.00	1.00	1.00
	PortCtrl	fpga4					1.04	1.04	1.09	1.1
	Fsbl	fsbl					1.100	1.100	1.104	1.104
	LinuxFW	lnxfw					1.100	1.100	1.104	1.104
	ROMMONB LC1	rommon					18.16	18.16	18.24	18.24
A9K-48X10GE-1G-TR	Can Bus Ctrl (CBC) LC4	cbc					47.02	47.02	47.03	47.03
	MB CPUCtrl	fpga2					1.85	1.85	1.87	1.87
	DBCtrl	fpga3					1.00	1.00	1.00	1.00
	PortCtrl	fpga4					1.04	1.04	1.09	1.1
	Fsbl	fsbl					1.100	1.100	1.104	1.104
	LinuxFW	lnxfw					1.100	1.100	1.104	1.104
	ROMMONB LC1	rommon					18.16	18.16	18.24	18.24
A9K-24X10GE-1G-SE	Can Bus Ctrl (CBC) LC4	cbc					47.02	47.02	47.03	47.03

	MB CPUCtrl	fpga2						1.85	1.85	1.87	1.87
	DBCtrl	fpga3						1.00	1.00	1.00	1.00
	PortCtrl	fpga4						1.04	1.04	1.09	1.1
	Fsbl	fsbl						1.100	1.100	1.104	1.104
	LinuxFW	lnxfw						1.100	1.100	1.104	1.104
	ROMMONB LC1	rommon						18.16	18.16	18.24	18.24
A9K-24X10GE-1G-TR	Can Bus Ctrl (CBC) LC4	cbc						47.02	47.02	47.03	47.03
	MB CPUCtrl	fpga2						1.85	1.85	1.87	1.87
	DBCtrl	fpga3						1.00	1.00	1.00	1.00
	PortCtrl	fpga4						1.04	1.04	1.09	1.1
	Fsbl	fsbl						1.100	1.100	1.104	1.104
	LinuxFW	lnxfw						1.100	1.100	1.104	1.104
	ROMMONB LC1	rommon						18.16	18.16	18.24	18.24
A9K-24X10GE-1G-CM	Can Bus Ctrl (CBC) LC4	cbc						47.02	47.02	47.03	47.03
	MB CPUCtrl	fpga2						1.85	1.85	1.87	1.87
	DBCtrl	fpga3						1.00	1.00	1.00	1.00
	PortCtrl	fpga4						1.04	1.04	1.09	1.1
	Fsbl	fsbl						1.100	1.100	1.104	1.104
	LinuxFW	lnxfw						1.100	1.100	1.104	1.104
	ROMMONB LC1	rommon						18.16	18.16	18.24	18.24
ASR9901-LC	Can Bus Ctrl (CBC)A	cbc								55.06	55.06
	Gamora-FPGA(A)									0.26	0.26
	IPU-FPGA(A)									1	1
	IPU-FSBL(A)									1.104	1.104
	IPU-Linux(A)									1.104	1.104
	Primary-BIOS(A)									23.13	23.13
SIPs											
A9K-SIP-500	Can Bus Ctrl (CBC) LC5	cbc	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
	QFPCPUBridge LC5	fpga2	5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.14
	NPUXBarBridge LC5	fpga1	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
	ROMMONB LC5	rommon	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
	CPUCtrl LC5	cpld1	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
	NPUXBarBridge LC5	fpga1	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
	ROMMONB LC5	rommon	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
	CPUCtrl LC5	cpld1	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
	NPUXBarBridge LC5	fpga1	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
	ROMMONB LC5	rommon	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	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
	SPA ROMMON swv2.2	rommon	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	1.00	1.00	1.00	1	1.00	1.00	1.00	1.00	1.00
SPA-4XOC12-POS	SPA FPGA swv1.00	fpga1	1.00	1.00	1.00	1	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	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	1.00	1.00	1.00	1.00	1.00
	SPA I/O FPGA	fpga3	1.00	1.00	1.00	1	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
	SPA ROMMON	rommon	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
	SPA FPGA swv2.104 hww2	fpga2	2.10	2.10	2.10	2.1	2.104	2.104	2.104	2.104	2.104
SPA-3XOC3-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
	SPA FPGA swv2.104 hww2	fpga2				2.1	2.104	2.104	2.104	2.104	2.104
SPA-1XOC48POS/RPR	SPA FPGA swv1.101 hww3	fpga2	1.10	1.10	1.10	1.1	1.101	1.101	1.101	1.101	1.101
	SPA FPGA swv1.2	fpga1					1.02	1.02	1.02	1.02	1.02
SPA-2XOC48POS/RPR	SPA FPGA swv1.00	fpga1	1.00	1.00	1.00	1	1	1	1	1	1
SPA-4XOC48POS/RPR	SPA FPGA swv1.00	fpga1	1.00	1.00	1.00	1	1	1	1	1	1
SPA-OC192POS-XFP	SPA FPGA swv1.2 hww2	fpga1	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
	SPA FPGA swv1.101 hww3	fpga2	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101
SPA-4XT3/E3	SPA E3 Subrate FPGA	fpga2	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
	SPA I/O FPGA	fpga1	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
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
	SPA T3 Subrate FPGA	fpga3	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
	SPA ROMMON	rommon	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	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
	SPA ROMMON	rommon	1.00	1.00	1.00	1	1	1	1	1	1
SPA-4XT3/E3-V2	SPA FPGA swv1.1 hww3	fpga1	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
	SPA ROMMON	rommon	1.00	1.00	1.00	1	1	1	1	1	1
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
	SPA I/O FPGA	fpga1	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
SPA-1XCHSTM1/OC3V2	SPA I/O FPGA	fpga1	1.00	1.00	1.00	1	1	1	1	1	1
	SPA ROMMON	rommon	1.00	1.00	1.00	1	1	1	1	1	1
SPA-8XOC3-POS	SPA FPGA swv1.0	fpga1	1.00	1.00	1.00	1	1	1	1	1	1
SPA-4XOC3-POS-V2	SPA FPGA swv1.0	fpga1	1.00	1.00	1.00	1	1	1	1	1	1
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
	SPA T3 Subrate FPGA	fpga2	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
	SPA ROMMON	rommon	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	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
	SPA ROMMON	rommon	1.00	1.00	1.00	1	1	1	1	1	1
SPA-4XCT3/DS0-V2	SPA I/O FPGA	fpga1	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
	SPA ROMMON	rommon	1.00	1.00	1.00	1	1	1	1	1	1
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
	SPA ROMMON	rommon	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	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
	SPA ROMMON	rommon	1.00	1.00	1.00	1	1	1	1	1	1

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	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
	UT1 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	0.73	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

ASR-9922-RP-TR	Can Bus Ctrl (CBC) MTRP	cbc	25.02	25.02	25.02	25.02	25.02	25.02	25.02	25.03	25.03	25.03	25.03
	Fabric Ctrl3 MTFC	fpga10	1.02	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl4 MTFC	fpga11	1.02	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl5 MTFC	fpga12	1.02	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl6 MTFC	fpga13	1.02	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03
	CPUCtrl1	fpga2	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	ClkCtrl	fpga3	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.05	1.05	1.05
	IntCtrl	fpga4	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
	UTl	fpga5	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09
	Timex	fpga6	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	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
	Fabric Ctrl11 MTFC	fpga8	1.02	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl2 MTFC	fpga9	1.02	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03
	CPUCtrl0	fpga1	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.05
	ROMMONB MTRP	rommon	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.12	5.12	5.12
ASR-9922-RP-SE	Can Bus Ctrl (CBC) MTRP	cbc	25.02	25.02	25.02	25.02	25.02	25.02	25.02	25.03	25.03	25.03	25.03
	Fabric Ctrl3 MTFC	fpga10	1.02	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl4 MTFC	fpga11	1.02	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl5 MTFC	fpga12	1.02	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl6 MTFC	fpga13	1.02	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03
	CPUCtrl1	fpga2	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	ClkCtrl	fpga3	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.05	1.05	1.05
	IntCtrl	fpga4	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
	UTl	fpga5	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09
	Timex	fpga6	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	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
	Fabric Ctrl11 MTFC	fpga8	1.02	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl2 MTFC	fpga9	1.02	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03
	CPUCtrl0	fpga1	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.05
	ROMMONB MTRP	rommon	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.12	5.12	5.12
ASR-9900-RP-TR	Can Bus Ctrl (CBC) MTRP	cbc	25.02	25.02	25.02	25.02	25.02	25.02	25.02	25.03	25.03	25.03	25.03
	Fabric Ctrl3 MTFC	fpga10	1.02	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl4 MTFC	fpga11	1.02	1.02	1.02	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03
	Fabric Ctrl5 MTFC	fpga12	1.02										

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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	cpld1	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	2.00	2.13	2.13	2.13
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	cpld1	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	2.00	2.13	2.13	2.13
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	cpld1	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	2.00	2.13	2.13	2.13
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	cpld1	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	2.00	2.13	2.13	2.13
A9K-VSM-500	Can Bus Ctrl (CBC)	cbc											

A9K-4X100GE-TR	Can Bus Ctrl (CBC) LC2	cbc										38.20	38.20	38.20
	fsbl LC2	fsbl	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	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-MOD400-SE	Can Bus Ctrl (CBC) LC2	cbc	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	1.30	1.76	
	DBCtrl	fpga10	x	x	x	x	x	x	x	x	x	1.12	1.12	
	FSBL	fsbl	x	x	x	x	x	x	x	x	x	1.19	1.78	
	LinuxFW	lnxfw	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	8.32	8.32	
A9K-MOD400-TR	Can Bus Ctrl (CBC) LC2	cbc	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	1.30	1.76	
	DBCtrl	fpga3	x	x	x	x	x	x	x	x	x	1.12	1.12	
	FSBL	fsbl	x	x	x	x	x	x	x	x	x	1.19	1.78	
	LinuxFW	lnxfw	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	8.32	8.32	
A9K-400G-DWDM-TR	Can Bus Ctrl (CBC) LC4	cbc	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	1.31	1.55	
	DBCtrl	fpga3	x	x	x	x	x	x	x	x	x	1.03	1.03	
	DBCtrl	fpga4	x	x	x	x	x	x	x	x	x	1.01	1.01	
	DBCtrl	fpga5	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	3.33	3.34	
	DBCtrl	fpga7	x	x	x	x	x	x	x	x	x	35.00	41.00	
	DBCtrl	fpga8	x	x	x	x	x	x	x	x	x	4.35	4.38	
	FSBL	fsbl	x	x	x	x	x	x	x	x	x	1.19	1.56	
	LinuxFW	lnxfw	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	8.32	8.34	
A9K-8X100GE-CM	Can Bus Ctrl (CBC) LC4	cbc	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	1.20	1.76	
	DBCtrl	fpga3	x	x	x	x	x	x	x	x	x	1.03	1.03	
	PortCtrl	fpga4	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	1.16	1.16	
	CPAK SR10	fpga6	x	x	x	x	x	x	x	x	x	2.02	2.02	
	Fsbl	fsbl	x	x	x	x	x	x	x	x	x	1.06	1.06	
	LinuxFW	lnxfw	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	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	
	CPUCtrl LC5	cpld1	x	x	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	
	NPUXBarBridge LC5	fpga1	x	x	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	
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	
	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	
	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	
	NPUXBarBridge LC5	fpga1	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	
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	
	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	
	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	
	NPUXBarBridge LC5	fpga1	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	
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	
	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	
	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	
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	
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	
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	
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	
	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	
	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	
	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	
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	
	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-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	
SPA-1XOC48POS/RPR	SPA FPGA swv1.101 hww3	fpga2	x	x	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	
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	
SPA-OC192POS-XFP	SPA FPGA swv1.2 hww2	fpga1	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 hww3	fpga2	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 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	

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A9K-2T20GE-L	Can Bus Ctrl (CBC) 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
	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
	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	0.11
	LCCLkCtrl LC2	cp1d3	0.09	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
	Tomcat LC2	fpga2	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	fpga1	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
	HSBI LC2	hsbi	x	x	x	x	x	x	3.00	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
A9K-16T/8-B	Can Bus Ctrl (CBC) 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
	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
	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
	LCCLkCtrl LC3	cp1d3	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
	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
	PortCtrl LC3	fpga2	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
	Serdes Upgrade LC3	fpga3							14.44	x	x	x	x	x	x	x
	Raven LC3	fpga1	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
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	
A9K-ISM-100	Can Bus Ctrl (CBC) LC6	cbc	x	x	x	x	0.10	0.10	18.05	18.06	18.06	18.06	18.06	18.06	18.08	18.08
	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
	Maintenance LC6	fpga2	x	x	x	x	0.10	0.10	2.00	2.10	2.10	2.12	2.13	2.13	2.13	2.13
	Amistad LC6	fpga1	x	x	x	x	0.20	0.20	0.29	0.30	0.30	0.30	0.30	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
	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
A9K-24x10GE-SE	Can Bus Ctrl (CBC) LC6	cbc	x	x	x	x	x	x	19.108	19.109	19.109	19.109	19.109	19.109	19.111	19.111
	DBCtrl LC6	fpga2	x	x	x	x	x	x	1.01	1.02	1.02	1.02	1.03	1.03	1.03	1.03
	LinkCtrl LC6	fpga3	x	x	x	x	x	x	1.00	1.01	1.01	1.01	1.01	1.01	1.01	1.01
	LCCPUCtrl LC6	fpga4	x	x	x	x	x	x	1.01	1.05	1.05	1.05	1.07	1.07	1.07	1.07
	ROMMONB LC6	rommon	x	x	x	x	x	x	1.21	1.28	1.28	1.28	1.29	1.29	2.00	2.00
A9K-24x10GE-TR	Can Bus Ctrl (CBC) LC6	cbc	x	x	x	x	x	x	19.108	19.109	19.109	19.109	19.109	19.109	19.111	19.111
	DBCtrl LC6	fpga2	x	x	x	x	x	x	1.01	1.02	1.02	1.02	1.03	1.03	1.03	1.03
	LinkCtrl LC6	fpga3	x	x	x	x	x	x	1.00	1.01	1.01	1.01	1.01	1.01	1.01	1.01
	LCCPUCtrl LC6	fpga4	x	x	x	x	x	x	1.01	1.05	1.05	1.05	1.07	1.07	1.07	1.07
	ROMMONB LC6	rommon	x	x	x	x	x	x	1.21	1.28	1.28	1.28	1.29	1.29	2.00	2.00
ASR9001-LC	Can Bus Ctrl (CBC) IMLC	cbc	x	x	x	x	x	x	x	23.113	23.113	23.114	23.114	23.114	23.114	23.114
	DB CPUCtrl	fpga2	x	x	x	x	x	x	x	1.15	1.15	1.15	1.16	1.17	1.18	1.18
	EP Gambit	fpga3	x	x	x	x	x	x	x	0.08	0.08	0.08	0.08	0.08	0.08	0.08
	MB CPUCtrl	fpga4	x	x	x	x	x	x	x	2.05	2.05	2.06	2.07	2.07	2.07	2.07
	EP Rogue	fpga6	x	x	x	x	x	x	x	0.09	0.09	1.06	1.06	1.06	1.06	1.06
	ROMMONB IM LC	rommon	x	x	x	x	x	x	x	1.30	1.30	1.30	1.35	1.36	2.01	2.01
ASR9001-S-LC	Can Bus Ctrl (CBC) IMLC	cbc	x	x	x	x	x	x	x	x	x	x	x	23.114	23.114	23.114
	DB CPUCtrl	fpga2	x	x	x	x	x	x	x	x	x	x	x	1.17	1.18	1.18
	EP Gambit	fpga3	x	x	x	x	x	x	x	x	x	x	x	0.08	0.08	0.08
	MB CPUCtrl	fpga4	x	x	x	x	x	x	x	x	x	x	x	2.07	2.07	2.07
	EP Rogue	fpga6	x	x	x	x	x	x	x	x	x	x	x	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
A9K-36x10GE-SE	Can Bus Ctrl (CBC) LC6	cbc	x	x	x	x	x	x	x	x	15.101	15.101	15.101	15.101	15.103	15.103
	DBCtrl LC6	fpga2	x	x	x	x	x	x	x	x	1.00	1.00	1.01	1.01	1.01	1.01
	LinkCtrl LC6	fpga3	x	x	x	x	x	x	x	x	1.00	1.00	1.00	1.00	1.00	1.00
	LCCPUCtrl LC6	fpga4	x	x	x	x	x	x	x	x	1.00	1.00	1.03	1.03	1.03	1.03
	ROMMONB LC6	rommon	x	x	x	x	x	x	x	x	1.28	1.28	1.29	1.29	2.00	2.00
A9K-36x10GE-TR	Can Bus Ctrl (CBC) LC6	cbc	x	x	x	x	x	x	x	x	15.101	15.101	15.101	15.101	15.103	15.103
	DBCtrl LC6	fpga2	x	x	x	x	x	x	x	x	1.00	1.00	1.01	1.01	1.01	1.01
	LinkCtrl LC6	fpga3	x	x	x	x	x	x	x	x	1.00	1.00	1.00	1.00	1.00	1.00
	LCCPUCtrl LC6	fpga4	x	x	x	x	x	x	x	x	1.00	1.00	1.03	1.03	1.03	1.03
	ROMMONB LC6	rommon	x	x	x	x	x	x	x	x	1.28	1.28	1.29	1.29	2.00	2.00
A9K-MOD80-SE	Can Bus Ctrl (CBC) LC4	cbc	x	x	x	x	x	x	20.113	20.115	20.115	20.115	20.115	20.115	20.117	20.117
	DB Ctrl	fpga2	x	x	x	x	x	x	0.05	1.01	1.01	1.01	1.04	1.04	1.04	1.04
	MB CPUCtrl	fpga4	x	x	x	x	x	x	0.06	1.03	1.03	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
A9K-MOD80-TR	Can Bus Ctrl (CBC) LC4	cbc	x	x	x	x	x	x	20.113	20.115	20.115	20.115	20.115	20.115	20.117	20.117
	DB Ctrl	fpga2	x	x	x	x	x	x	0.05	1.01	1.01	1.01	1.04	1.04	1.04	1.04
	MB CPUCtrl	fpga4	x	x	x	x	x	x	0.06	1.03	1.03	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
A9K-MOD160-SE	Can Bus Ctrl (CBC) LC4	cbc	x	x	x	x	x	x	20.113	20.115	20.115	20.115	20.115	20.115	20.117	20.117
	DB Ctrl	fpga2	x	x	x	x	x	x	0.05	1.01	1.01	1.01	1.04	1.04	1.04	1.04
	MB CPUCtrl	fpga4	x	x	x	x	x	x	0.06	1.03	1.03	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
A9K-MOD160-TR	Can Bus Ctrl (CBC) LC4	cbc	x	x	x	x	x	x	20.113	20.115	20.115	20.115	20.115	20.115	20.117	20.117
	DB Ctrl	fpga2	x	x	x	x	x	x	0.05	1.01	1.01	1.01	1.04	1.04	1.04	1.04
	MB CPUCtrl	fpga4	x	x	x	x	x	x	0.06	1.03	1.03	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
A9K-2x100GE-SE	Can Bus Ctrl (CBC) LC4	cbc	x	x	x	x	x	x	21.107	21.108	21.108	21.108	21.108	21.108	21.110	21.110
	DB IO FPGA1	cp1d1	x	x	x	x	x	x	1.01	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	MB CPUCtrl	fpga2	x	x	x	x	x	x	1.02	1.07	1.07	1.07	1.08	1.08	1.08	1.08
	PortCtrl	fpga3	x	x	x	x	x	x	1.01	1.03	1.03	1.03	1.05	1.05	1.05	1.05
	Imux	fpga4	x	x	x	x	x	x	1.00	1.01	1.01	1.01	1.01	1.01	1.01	1.01
	Emux	fpga5	x	x	x	x	x	x	1.01	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	100GIGMAC	fpga6	x	x	x	x	x	x	23.00	34.00	34.00	34.00	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
A9K-2x100GE-TR	Can Bus Ctrl (CBC) LC4	cbc	x	x	x	x	x	x	21.107	21.108	21.108	21.108	21.108	21.108	21.110	21.110
	DB IO FPGA1	cp1d1	x	x	x	x	x	x	1.01	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	MB CPUCtrl	fpga2	x	x	x	x	x	x	1.02	1.07	1.07	1.07	1.08	1.08	1.08	1.08
	PortCtrl	fpga3	x	x	x	x	x	x	1.01	1.03	1.03	1.03	1.05	1.05	1.05	1.05
	Imux	fpga4	x	x	x	x	x	x	1.00	1.01	1.01	1.01	1.01	1.01	1.01	1.01
	Emux	fpga5	x	x	x	x	x	x	1.01	1.03	1.03	1.03	1.03	1.03	1.03	1.03
	100GIGMAC	fpga6	x	x	x	x	x	x	23.00	34.00	34.00	34.00	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
A9K-1x100GE-SE	Can Bus Ctrl (CBC) LC4	cbc	x	x	x	x	x	x	x	x	21.108	21.108	21.108	21.108	21.110	21.110
	DB IO FPGA1	cp1d1	x	x	x	x	x	x	x	x	1.03	1.03	1.03	1.03	1.03	1.03
	MB CPUCtrl	fpga2	x	x	x	x	x	x	x	x	1.07	1.07	1.08			

ASR9000 Software / Firmware & Hardware Compatibility Martrix							
			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	x	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	cpld1	0.15	0.15	0.19	0.19	0.19
	PHYCtrl LC2	cpld2	0.60	0.60	0.06	0.06	0.06
	PortCtrl LC2	fpga2	0.80	0.80	0.09	0.09	0.09
	Bridge LC2	fpga[1]	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	cpld1	0.15	0.15	0.19	0.19	0.19
	PHYCtrl LC2	cpld2	0.60	0.60	0.06	0.06	0.06
	PortCtrl LC2	fpga2	0.80	0.80	0.09	0.09	0.09
	Bridge LC2	fpga[1]	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	cpld1	x	x	0.19	0.19	0.19
	PHYCtrl LC2	cpld2	x	x	0.06	0.06	0.06
	PortCtrl LC2	fpga2	x	x	0.09	0.09	0.09
	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
A9K-8T/4-B	Can Bus Ctrl (CBC) LC2	cbc	2.10	2.20	2.02	2.02	2.02
	CPUCtrl LC2	cpld1	0.15	0.15	0.19	0.19	0.19
	PHYCtrl LC2	cpld2	0.70	0.70	0.08	0.08	0.08
	LCCIkCtrl LC2	cpld3	0.20	0.20	0.03	0.03	0.03
	PortCtrl LC2	fpga2	0.10	0.10	0.10	0.10	0.10
	PHY LC2	fpga3	14.42	14.42	14.42	14.42	14.42
	Bridge LC2	fpga[1]	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	cpld1	0.15	0.15	0.19	0.19	0.19
	PHYCtrl LC2	cpld2	0.70	0.70	0.08	0.08	0.08
	LCCIkCtrl LC2	cpld3	0.20	0.20	0.03	0.03	0.03
	PortCtrl LC2	fpga2	0.10	0.10	0.10	0.10	0.10
	PHY LC2	fpga3	14.42	14.42	14.42	14.42	14.42
	Bridge LC2	fpga[1]	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	cpld1	x	x	0.19	0.19	0.19
	PHYCtrl LC2	cpld2	x	x	0.08	0.08	0.08
	LCCIkCtrl LC2	cpld3	x	x	0.03	0.03	0.03
	PortCtrl LC2	fpga2	x	x	0.10	0.10	0.10
	Serdes Upgrade LC2	fpga3	x	x	14.42	14.42	14.42
	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
A9K-4T-B	Can Bus Ctrl (CBC) LC2	cbc	2.10	2.20	2.02	2.02	2.02
	CPUCtrl LC2	cpld1	0.15	0.15	0.19	0.19	0.19
	PHYCtrl LC2	cpld2	0.70	0.70	0.08	0.08	0.08
	LCCIkCtrl LC2	cpld3	0.20	0.20	0.03	0.03	0.03
	PortCtrl LC2	fpga2	0.10	0.10	0.10	0.10	0.10
	PHY LC2	fpga3	14.42	14.42	14.42	14.42	14.42
	Bridge LC2	fpga[1]	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	cpld1	0.15	0.15	0.19	0.19	0.19
	PHYCtrl LC2	cpld2	0.70	0.70	0.08	0.08	0.08
	LCCIkCtrl LC2	cpld3	0.20	0.20	0.03	0.03	0.03
	PortCtrl LC2	fpga2	0.10	0.10	0.10	0.10	0.10
	PHY LC2	fpga3	14.42	14.42	14.42	14.42	14.42
	Bridge LC2	fpga[1]	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	cpld1	x	x	0.19	0.19	0.19
	PHYCtrl LC2	cpld2	x	x	0.08	0.08	0.08
	LCCIkCtrl LC2	cpld3	x	x	0.03	0.03	0.03
	PortCtrl LC2	fpga2	x	x	0.10	0.10	0.10
	Serdes Upgrade LC2	fpga3	x	x	14.42	14.42	14.42
	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

A9K-8T-B	Can Bus Ctrl (CBC) LC3	cbc	x	x	x	6.02	6.02
	CPUCtrl LC3	cpld1	x	x	x	1.00	1.00
	PHYCtrl LC3	cpld2	x	x	x	0.08	0.08
	LCCIkCtrl LC3	cpld3	x	x	x	0.03	0.03
	DB CPUCtrl LC3	cpld4	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
	ROMMONB LC3	rommon	x	x	x	1.03	1.03
A9K-8T-E	Can Bus Ctrl (CBC) LC3	cbc	x	x	6.02	6.02	6.02
	CPUCtrl LC3	cpld1	x	x	0.07	1.00	1.00
	PHYCtrl LC3	cpld2	x	x	0.08	0.08	0.08
	LCCIkCtrl LC3	cpld3	x	x	0.03	0.03	0.03
	[DB] CPUCtrl LC3	cpld4	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
	HSBI LC3	hsbi	x	x	3.00	x	x
	ROMMONB LC3	rommon	x	x	1.02	1.03	1.03
A9K-8T-L	Can Bus Ctrl (CBC) LC3	cbc	x	x	6.02	6.02	6.02
	CPUCtrl LC3	cpld1	x	x	0.07	1.00	1.00
	PHYCtrl LC3	cpld2	x	x	0.08	0.08	0.08
	LCCIkCtrl LC3	cpld3	x	x	0.03	0.03	0.03
	CPUCtrl LC3	cpld4	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
	HSBI LC3	hsbi	x	x	3.00	x	x
	ROMMONB LC3	rommon	x	x	1.02	1.03	1.03
A9K-2T20GE-B	Can Bus Ctrl (CBC) LC2	cbc	x	x	2.02	2.02	2.02
	CPUCtrl LC2	cpld1	x	x	0.19	0.19	0.19
	PHYCtrl LC2	cpld2	x	x	0.09	0.11	0.11
	LCCIkCtrl LC2	cpld3	x	x	0.09	0.09	0.09
	PortCtrl LC2	fpga2	x	x	0.16	0.16	0.16
	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
A9K-2T20GE-E	Can Bus Ctrl (CBC) LC2	cbc	x	x	2.02	2.02	2.02
	CPUCtrl LC2	cpld1	x	x	0.19	0.19	0.19
	PHYCtrl LC2	cpld2	x	x	0.09	0.11	0.11
	LCCIkCtrl LC2	cpld3	x	x	0.09	0.09	0.09
	PortCtrl LC2	fpga2	x	x	0.16	0.16	0.16
	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
A9K-2T20GE-L	Can Bus Ctrl (CBC) LC2	cbc	x	x	2.02	2.02	2.02
	CPUCtrl LC2	cpld1	x	x	0.19	0.19	0.19
	PHYCtrl LC2	cpld2	x	x	0.08	0.11	0.11
	LCCIkCtrl LC2	cpld3	x	x	0.09	0.09	0.09
	Tomcat LC2	fpga2	x	x	0.16	0.16	0.16
	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
A9K-16T/8-B	Can Bus Ctrl (CBC) LC3	cbc	x	x	x	6.02	6.02
	CPUCtrl LC3	cpld1	x	x	x	1.00	1.00
	PHYCtrl LC3	cpld2	x	x	x	0.04	0.04
	LCCIkCtrl LC3	cpld3	x	x	x	0.01	0.01
	DB CPUCtrl LC3	cpld4	x	x	x	1.00	1.00
	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
A9K-ISM-100	Can Bus Ctrl (CBC) LC6	cbc	x	x	x	x	x
	CPUCtrl LC6	cpld1	x	x	x	x	x
	Maintenance LC6	fpga2	x	x	x	x	x
	Amistad LC6	fpga1	x	x	x	x	x
	ROMMONA LC6	rommonA	x	x	x	x	x
	ROMMONB LC6	rommon	x	x	x	x	x
A9K-24x10GE-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-24x10GE-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
ASR9001-LC	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

	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
	NPUXBarBridge 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 hww2	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.

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