



C4c™ CMTS Release 8.2 Technical Specifications

Specifications

Installation Environment

RF Interfaces	External 'F' type connector
Network-side Interfaces	10/100/1000 BaseT Ethernet and Gigabit Ethernet over fiber (SFP); 10 Gigabit Ethernet (XFP)
Power	Single power module (DC or AC) or dual power modules (AC/DC, AC/AC, or DC/DC) -48 Vdc (-44 to -72 Vdc) 115/220 VAC (100 to 240 VAC, 47 to 63 Hz)
Power Consumption	At -48 Vdc: 900 W nominal and 1,200 W max At 115 VAC: 1,000 W nominal and 1,350 W max

RF Downstream

Frequency Range (MHz)	91 to 999 (DOCSIS® 3.0); 112 to 999 (EuroDOCSIS™ 3.0) (using 16D or XD CAM)
Modulation (QAM)	64, 256
Data Rate (Mbps) (Max.)	30.34 to 55.62 per channel
RF Output Level (dBmV)	41 to 60

RF Upstream

Frequency Range (MHz)	5 to 65 (DOCSIS 3.0) – 24U CAM Hardware: 5 to 85 (not currently supported in software)
Modulation	QPSK, 16 QAM, 32 QAM, 64 QAM
Data Rate (Mbps) (Max.)	up to 30.72 per channel
Receive Input Level (dBmV)	-16 to 29

Physical

Operating Temperature:	
Short Term °F (°C)	+23 to +131 (-5 to +55)
Long Term °F (°C)	+41 to +104 (+5 to +40)
Storage Temperature °F (°C)	-40 to +158 (-40 to +70)
Operating Humidity (Min.-Max.)	5 to 85% (Non condensing)
Dimensions (H x W x D) in. (cm)	12.25 x 18.05 x 22.5 (31.1 x 44.3 x 57.2)
Weight lbs. (kg)	116.2 (52.7)

Software Release 8.2 Features (Partial List)

Ethernet Link Aggregation (1 Gbps ports)	DOCSIS 3.0 Multicast IP Video Support (via IGMPv3)
Integrated Service Class Agility	Multicast CAC for IP Video (Phase 1)
IPv6 Support for PCMM	Policy-Based Routing with Recursive Next Hop
Load Balancing of D3.0 Voice Flows (DS and US)	Dynamic CM Load Balancing, including Cross-MAC Domain
DSG 3.0	DOCSIS 3.0 24 Channel Bonding (Downstream)
Extended CM Transmit Power (for USCB)	DOCSIS 3.0 Four Channel Bonding (Upstream)
16D CAM, XD CAM	BSoD L2 VPN
12U CAM, 24U CAM	BPI+ Enforce
IPv6 Support, Including:	TFTP Enforce and Dynamic Shared Secret
IS-IS Multi-Topology Support	Integrated Upstream Agility
OSPFv3	PIM-SSM, IGMPv2, and static multicast
DHCPv6 Prefix Delegation with Route Injection	RIPv2 (RFC 1723), OSPFv2 (RFC 2328), IS-IS, BGPv4
Cable Source Verify with DHCP Lease Query	SII Lawful Intercept (RFC 3924)
TFTP Enforce & Dynamic Shared Secret for IPv6 CMs	802.1Q VLAN tagging

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Specifications (continued)

Regulatory

Safety: UL® 60950, CSA C22.2 No. 950, IEC60950
EMC: GR-1089-CORE (ESD, Grounding Electrical Safety)
FCC Part 15 Class A, EN300 386-2 (CISPR 22, Class A)
Environmental: GR-63-CORE, ETS 300 019

Ordering Information

Part Number	Description
C4c Hardware and Software	
780151	ARRIS C4c Chassis, 8 Slot Chassis Assembly – 7 RU Chassis
780271	C4c AC Power Supply Module
780272	C4c DC Power Supply Module
708369	Physical Interface Card (PIC) for the SCM with Fan Controller
793931	System Control Module II Enhanced Memory (Updated) (SCM II EM(U))
722013	Router Control Module (RCM)
794046	Optimized 16D Cable Access Module (CAM) Kit (Active) Licensed for 16 Downstreams, DOCSIS/EuroDOCSIS 3.0
794048	Optimized 24D Cable Access Module (CAM) Kit (Active) Licensed for 24 Downstreams, EuroDOCSIS 3.0
794047	Optimized 32D Cable Access Module (CAM) Kit (Active) Licensed for 32 Downstreams, DOCSIS 3.0
794069	24U CAM Kit (Even) – 24U CAM, Even CAM PIC, and 24 Upstream Licenses, DOCSIS/EuroDOCSIS 3.0
794070	24U CAM Kit (Odd) – 24U CAM, Odd CAM PIC, and 24 Upstream Licenses, DOCSIS/EuroDOCSIS 3.0
782360	C4c CMTS Rel. 8.2 DOCSIS 3.0 License per Downstream for 16D/XD CAM
782361	C4c CMTS Rel. 8.2 DOCSIS 3.0 License per Upstream for 12U/24U CAM
801094	C4c CMTS Release 8.2 on CD-ROM
C4c XD Field Software Upgrade	
781327	16D to 32D Cable Access Module (CAM) Field Software Upgrade, EuroDOCSIS 3.0
793986	16D to 32D Cable Access Module (CAM) Field Software Upgrade, DOCSIS 3.0
781323	24D to 32D Cable Access Module (CAM) Field Software Upgrade, EuroDOCSIS 3.0
Ethernet Network Interface Options	
722872	C4 CMTS SFP Electrical Interface, 1000Base-TX
722093	C4 CMTS SFP Optical Interface, 1000Base-SX
780180	C4 CMTS SFP Optical Interface, 1000Base-ZX
728965	C4 CMTS SFP Optical Interface, 1000Base-LX10
722873	C4 CMTS XFP Optical Interface, 10GBase-SR
780243	C4 CMTS XFP Optical Interface, 10GBase-ER
728887	C4 CMTS XFP Optical Interface, 10GBase-LR/LW
780244	C4 CMTS XFP Optical Interface, 10GBase-ZR
Maintenance Plan (required)	
708387	Software Maintenance - Phone Plus Gold

Specifications are subject to change without notice.

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