



C4c™ CMTS Release 8.0 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)
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 8.0

16D CAM, XD CAM (32D Annex B, 24D Annex A)
12U CAM, 24U CAM

IPv6 Support, Including:

- IS-IS Multi-Topology Support
- OSPFv3
- DHCPv6 Prefix Delegation with Route Injection
- Cable Source Verify with DHCP Lease Query
- TFTP Enforce & Dynamic Shared Secret for IPv6 CMs
- DOCSIS 3.0 Multicast IP Video Support (via IGMPv3 Control)
- Multicast CAC for IP Video (Phase 1)
- FQDN Support for Static IGMP Joins
- Enhanced Control-Plane Overload Monitoring
- Policy-Based Routing
- Dynamic CM Load Balancing, including Cross-MAC Domain
- DOCSIS 3.0 Eight Channel Bonding (Downstream)
- DOCSIS 3.0 Four Channel Bonding (Upstream)

- Additional Classifier Support (for MGPI applications)
- BSoD L2 VPN
- BPI+ Enforce
- IPDR/SP
- TFTP Enforce and Dynamic Shared Secret
- TACACS+ AAA
- PIM-SSM, IGMPv2, and static multicast
- RIPv2 (RFC 1723), OSPFv2 (RFC 2328)
- IS-IS, BGPv4
- PacketCable™ Multimedia Support
- Modem Steering
- SII Lawful Intercept (RFC 3924)
- In-chassis Mixed Annex A & Annex B support
- 802.1Q VLAN tagging
- Extended ACLs & Named ACLs
- Secure Shell v2 (SSHv2)

Continued on the next page...

ARRIS Technical Specifications

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
785169	System Control Module II (SCM II)
722013	Router Control Module (RCM)
790540	Classic 16D Cable Access Module (CAM) Kit (Active) Licensed for 16 Downstreams, DOCSIS/EuroDOCSIS 3.0
793977	Classic 24D Cable Access Module (CAM) Kit (Active) Licensed for 24 Downstreams, EuroDOCSIS 3.0
793978	Classic 32D Cable Access Module (CAM) Kit (Active) Licensed for 32 Downstreams, DOCSIS 3.0
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
790542	12U Cable Access Module (CAM) Kit (Even) Licensed for 12 Upstreams, DOCSIS/EuroDOCSIS 3.0
790543	12U Cable Access Module (CAM) Kit (Odd) Licensed for 12 Upstreams, DOCSIS/EuroDOCSIS 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
793920	ARRIS C4/C4c CMTS System Software Release 8.0 on CD-ROM
C4c XD Field Software Upgrade	
793985	16D to 24D Cable Access Module (CAM) Field Software Upgrade, EuroDOCSIS 3.0
793986	16D to 32D Cable Access Module (CAM) Field Software Upgrade, DOCSIS 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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