



C4® CMTS Release 7.3 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	Dual dc voltage mains: -48 V dc (-44 to -72 V dc); Optional ac power configuration
Power Consumption (note 1)	Nominal – 2500 W Maximum – 2800 W at -48 VDC Note 1 – Nominal power consumption for DOCSIS 3.0 Duplex full-fill chassis with 1:1 active U:D ratio.

RF Downstream

Frequency Range (MHz)	91 to 999 (DOCSIS 3.0); 112 to 999 (EuroDOCSIS 3.0)
Modulation (QAM)	64, 256
Data Rate (Mbps) (Max.)	30.34, 55.62 per channel
RF Output Level (dBmV)	44 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
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. to Max.)	5 to 85% (Non condensing)
Dimensions (H x W x D) in. (cm)	24.5 x 17.4 x 20.0 (62.2 x 44.2 x 50.8)
Weight lbs. (kg)	178 (80.9)

Software Release 7.3

DOCSIS 3.0 Eight Channel Bonding (Downstream)	CIDR (Classless Inter-Domain Routing) (RFC 1519)	BSoD L2 VPN Support
DOCSIS 3.0 Four Channel Bonding (Upstream)	PIM-SSM, IGMPv2, and multicast	IPv6 Support – Dual Stack CPE, IS-IS Routing, Downstream Subscriber Management Filters, and others
PacketCable Multimedia Support	Interface Bundling across any number of RF interfaces	Rule-based Cable Modem Steering
IPDR/SP, including DOCSIS 3.0 Schemas (SAMIS Type I and CPE Records)	SNMP v1, v2c, and v3	Integrated Upstream Agility
SII Lawful Intercept (RFC 3924)	DOCSIS MIBs and Cadant® enterprise MIBs	BPI+ Enforce
802.1Q VLAN tagging	Dynamic Cable Modem Load Balancing	Device Classes
RIPv2 (RFC 1723), OSPFv2 (RFC 2328)	Flexible US to DS Mapping	Same software image for both C4 CMTS and C4c™ CMTS
IS-IS, BGPv4	Telnet	Secure Network Time Protocol (S-NTP)
In-chassis Mixed Annex A & Annex B support	IP DiffServ	DHCP Relay Agent (Option 82)
TFTP Enforce and Dynamic MIC	Extended ACLs & Named ACLs	
DNS Client	Secure Shell v2 (SSHv2)	
ARP Abuse Counts	DOCSIS Ping	

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ARRIS Technical Specification

Specifications Continued...

Regulatory

Designed to NEBS Level 3 Requirements
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

Hardware

708369	Physical Interface Card (PIC) for Slot 19 for Use with SCM with Fan Controller
708963	Physical Interface Card (PIC) for Slot 20 for Use with SCM without Fan Controller
710424	2Dx12U or 12 U CAM Physical Interface Card (PIC) for Even-slot Position
710425	2Dx12U or 12 U CAM Physical Interface Card (PIC) for Odd-slot Position
710426	2Dx12U or 12 U CAM Physical Interface Card (PIC) for Spare-slot Position
713877	ARRIS C4 Chassis, 21 Slot Chassis Assembly 14RU Chassis, 3 High Speed Fans
718100	System Control Module II (SCM II)
780263	System Control Module II Enhanced Memory (SCM II EM)
722013	Router Control Module (RCM)
722014	16D Cable Access Module (CAM) DOCSIS 3.0
722015	12U Cable Access Module (CAM) DOCSIS 3.0
722016	16D CAM Physical Interface Card (PIC) for Active-slot Position
722017	16D CAM Physical Interface Card (PIC) for Spare-slot Position
722891	C4 CMTS Router Control Module Crossover Connector

Software required for each CMTS

790400	ARRIS C4 CMTS System Software Rel 7.3 License per Downstream
790401	ARRIS C4 CMTS System Software Rel 7.3 License per Upstream

Ethernet Network Interface Options

722093	C4 CMTS SFP Optical Interface, 1000Base-SX
780180	C4 CMTS SFP Optical Interface, 1000Base-ZX
722872	C4 CMTS SFP Electrical Interface, 1000Base-TX
728965	C4 CMTS SFP Optical Interface, 1000Base-LX
722873	C4 CMTS XFP Optical Interface, 10GBase-SR
780243	C4 CMTS XFP Optical Interface, 10GBase-ER
718887	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
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