



C4 CMTS Release 7.2 Technical Specifications

Specifications

Installation Environment

RF Interfaces	External 'F' type connector
Network-side Interfaces	10/100 BaseT Ethernet; Gigabit Ethernet; 10 Gigabit Ethernet
Power	Dual dc voltage mains: -48 V dc (-44 to -72 V dc) Optional ac power configuration
Power Consumption - Note1	Nominal - 2500 W Maximum - 2800 W max 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)	91-999 (DOCSIS 3.0); 112-999 (Euro-DOCSIS 3.0)
Modulation (QAM)	256
Data Rate (Mbps) (Max.)	30.34 – 55.62 per channel
RF Output Level (dBmV)	44-60

RF Upstream

Frequency Range (MHz)	5-65 (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.-Max.)	5-85% (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 7.2

DOCSIS 3.0 Four Channel Bonding (DS and US)	CIDR (Classless Inter-Domain Routing) (RFC 1519)
Euro-DOCSIS 3.0	PIM-SSM, IGMPv2, and multicast
PacketCable 1.0/1.1	Interface Bundling across any number of RF interfaces
DOCSIS Set-top Gateway (DSG)	Command Line Interface (CLI)
PacketCable Multimedia Support	SNMP v1, v2c and v3
IPDR/SP	DOCSIS MIBs and Cadant® enterprise MIBs
SII Lawful Intercept (RFC 3924)	Dynamic Cable Modem Load Balancing
802.1Q VLAN tagging	Flexible US to DS Mapping
RIPv2 (RFC 1723), OSPFv2 (RFC 2328)	Telnet
IS-IS, BGP v4	IP DiffServ
DHCP Relay Agent (Option 82)	Extended ACLs & Named ACLs
ICMP (RFC 792)	Secure Shell v2 (SSHv2)
In-chassis Mixed Annex A & Annex B support	DOCSIS Ping
TFTP Enforce and Dynamic MIC	Secure Network Time Protocol (S-NTP)
DNS Client	
ARP Abuse Counts	

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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

Regulatory

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)
722013	Router Control Module (RCM)
780263	System Control Module II – Enhanced Memory (SCM II–EM)
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

728978	ARRIS C4 CMTS System Software Rel 7.2 License per Downstream
728979	ARRIS C4 CMTS System Software Rel 7.2 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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Specifications are subject to change without notice.

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