



C4c™ CMTS Release 7.1 Technical Specifications

Installation Environment

RF Interfaces	External 'F' type connector
Network-side Interfaces	10/100 BaseT Ethernet; Gigabit Ethernet; 10 Gigabit Ethernet
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 V AC, 47 to 63 Hz)
Power Consumption	At -48 VDC: 900 W nominal and 1200 W max At 115 VAC: 1000 W nominal and 1350 W max

RF Downstream

Frequency Range (MHz)	91-999 (DOCSIS 3.0); 112-999 (Euro-DOCSIS 3.0) (using 16D CAM)
Modulation (QAM)	64 or 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)	12.25 x 17.45 x 22.5 (31.1 x 44.3 x 57.2)	
Weight lbs. (kg)	116.2 (52.7)	

Software Support Release 7.1

DOCSIS 3.0	Layer 3 802.1Q VLAN tagging
Euro-DOCSIS 3.0	Lawful Intercept (SII)
PacketCable 1.0/1.1	IP Data Record/Streaming Protocol (IPDR/SP)
DOCSIS Set-top Gateway (DSG)	Interface Bundling across any number of RF interfaces
PacketCable Multimedia Support	Command Line Interface (CLI)
BPI Hybrid Support	SNMP v1, v2c and v3
Multiple VRFs	DOCSIS MIBs and Cadant enterprise MIBs
RIPv2 (RFC 1723), OSPFv2 (RFC 2328)	Dynamic Cable Modem Load Balancing
OSPF in 5 VRFs	Flexible Full US to DS Mapping
DHCP Relay Agent (Option 82)	Telnet
ICMP (RFC 792)	IP DiffServ
CIDR (Classless Inter-Domain Routing) (RFC 1519)	Extended ACLs & Named ACLs
PIM-SSM, IGMPv2, and multicast	Intelligent Channel Optimizer Support

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
780151	ARRIS C4c Chassis, 8 Slot Chassis Assembly – 7 RU Chassis
780271	C4c AC Power Supply Module
780272	C4c DC Power Supply Module
785169	System Control Module II
722013	Router Control Module (RCM)
722014	16D Cable Access Module (CAM) DOCSIS 3.0
722015	12U Cable Access Module (CAM) DOCSIS 3.0
719356	2Dx12U Cable Access Module (CAM) DOCSIS 2.0
708369	Physical Interface Card (PIC) for the SCM with Fan Controller
722016	16D CAM Physical Interface Card (PIC) for Active-slot Position
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
Software Required for Each CMTS	
780265	ARRIS C4c CMTS System Software Rel . 7.1 License per Downstream for 16D CAM
780266	ARRIS C4c CMTS System Software Rel . 7.1 License per Upstream for 12U CAM
785245	ARRIS C4c CMTS System Software Rel . 7.1 License per Downstream for 2Dx12U CAM
780267	ARRIS C4c CMTS System Software Rel . 7.1 on CD-ROM (optional)
Ethernet Network Interface Options	
722093	C4c CMTS SFP Optical Interface, 1000Base-SX
780180	C4c CMTS SFP Optical Interface, 1000Base-ZX
728965	C4c CMTS SFP Optical Interface, 1000Base-LX
722872	C4c CMTS SFP Electrical Interface, 1000Base-TX
722873	C4c CMTS XFP Optical Interface, 10GBase-SR
728887	C4c CMTS XFP Optical Interface, 10GBase-LR/LW
780243	C4c CMTS XFP Optical Interface, 10GBase-ER
780244	C4c 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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