



# C4c™ 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	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: 1000 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 CAM)
Modulation (QAM)	64, 256
Data Rate (Mbps) (Max.)	30.34 to 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 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 17.45 x 22.5 (31.1 x 44.3 x 57.2)
Weight lbs. (kg)	116.2 (52.7)

### 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 Shared Secret	Extended ACLs & Named ACLs	
DNS Client	Secure Shell v2 (SSHv2)	
ARP Abuse Counts	DOCSIS Ping	

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# 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
<b>C4c Hardware</b>	
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 12U CAM Physical Interface Card (PIC) for Even-slot Position
710425	2Dx12U or 12U CAM Physical Interface Card (PIC) for Odd-slot Position
<b>C4c Software Licenses</b>	
790456	ARRIS C4c CMTS System Software Rel . 7.3 License per Downstream for 16D CAM
790454	ARRIS C4c CMTS System Software Rel . 7.3 License per Upstream for 12U CAM
790455	ARRIS C4c CMTS System Software Rel . 7.3 License per Downstream for 2Dx12U CAM
790402	ARRIS C4/C4c CMTS System Software Rel . 7.3 on CD-ROM (optional)
<b>Ethernet Network Interface Options</b>	
722093	C4c CMTS SFP Optical Interface, 1000Base-SX
728965	C4c CMTS SFP Optical Interface, 1000Base-LX
780180	C4c CMTS SFP Optical Interface, 1000Base-ZX
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
<b>Maintenance Plan (required)</b>	
708387	Software Maintenance - Phone Plus Gold

Specifications are subject to change without notice.

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