

ARRIS 24U CAM

24 UPSTREAM CABLE ACCESS MODULE

The 24U Cable Access Module (CAM) provides twenty-four physical upstream RF receivers on a single blade for the ARRIS C4 Cable Modem Termination System (CMTS). The 24U CAM uses the same Physical Interface Card (PIC) as the current 12U CAM with eight F connectors. In addition, these upstream channels can be positioned anywhere in the upstream spectrum of 5 MHz to 85 MHz (5 to 65 MHz with Release 8.0).

- Double-density upstream RF module
- DOCSIS® 3.0 upstream channel bonding
- Independent upstream channel module, separate from downstream module
- Legendary fully-integrated C4 CMTS "hitless" RF sparing
- Hot swappable
- Flexible mapping of upstream channels to downstream channels
- Supported in all C4 and C4c CMTS chassis



SPECIFICATIONS

RF UPSTREAM	
Frequency Range (MHz)	5 to 85 (5 to 65 with Software Release 8.0)
Modulation	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM
Channel Type	TDMA, ATDMA, TDMA/ATDMA, SCDMA
Data Rate (Mbps) (Max.)	30.72 per channel
RF Input Level (dBmV)	-16 to +29
Frequency Resolution (KHz)	< 1
Symbol Rate (Ksym/sec)	160, 320, 640, 1280, 2560, 5120
Bandwidth per Channel (MHz)	0.2, 0.4, 0.8, 1.6, 3.2, 6.4
PHYSICAL	
Power	-48 VDC (-44 to -72 VDC)
Power Consumption	100 W nominal and 125 W max at -48 VDC, 77°F (25°C)
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)	15.8 x 0.8 x 15.0 (40.0 x 1.9 x 38.1)
Weight lbs. (kg)	approx 4 (1.8)

SUPPORT WITH SOFTWARE RELEASE 8.0 (PARTIAL FEATURE LIST)	
24U CAM	BSoD L2 VPN
Flexible Mapping of Upstream Channels to F Connectors	BPI+ Enforce
Up to 12 Upstream Channels per F Connector	IPDR/SP
8 F Connectors per Physical Interface Card (PIC)	Integrated Upstream Agility
Up to 9+1 RF Sparing	PIM-SSM, IGMPv2, and static multicast
BPI/BPI+ Support	RIPv2 (RFC 1723), OSPFv2 (RFC 2328)
DOCSIS® 3.0 Multicast IP Video Support	Policy-Based Routing
IGMPv3 Control and CAC	PacketCable™ Multimedia Support
IS-IS (including Multi-topology (MT)), BGPv4	Additional Classifier Support (for MGPI applications)
TFTP Enforce and Dynamic MIC (IPv4 or IPv6)	SII Lawful Intercept (RFC 3924)
IPv6 Phase 3	In-chassis Mixed Annex A & Annex B support
Cable Source Verify with DHCP Lease Query	802.1Q VLAN tagging
Route Injection (RI) for DHCPv6 Prefix Delegation	Extended ACLs & Named ACLs
OSPFv3	Secure Shell v2 (SSHv2)
DOCSIS 3.0 Eight Channel Bonding (Downstream)	DOCSIS Ping
DOCSIS 3.0 Four Channel Bonding (Upstream)	ARP Abuse Counts
Cross-MAC Domain Dynamic Load Balancing	DHCP Relay Agent (Option 82)
Dynamic Cable Modem Load Balancing	DNS Client

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
24U CAM Kits	
790562	24U DOCSIS/EuroDOCSIS™ CAM Kit (Even): 1 x 24U CAM, Even CAM PIC, and SW for C4 CMTS
790563	24U DOCSIS/EuroDOCSIS CAM Kit (Odd): 1 x 24U CAM, Odd CAM PIC, and SW for C4 CMTS
790564	24U DOCSIS/EuroDOCSIS CAM Kit (Spare): 1 x 24U CAM, Spare CAM PIC, and SW for C4 CMTS
794069	24U DOCSIS/EuroDOCSIS CAM Kit (Even): 1 x 24U CAM, Even CAM PIC, and SW for C4c CMTS
794070	24U DOCSIS/EuroDOCSIS CAM Kit (Odd): 1 x 24U CAM, Odd CAM PIC, and SW for C4c CMTS
Maintenance Plan (required)	
708387	Software Maintenance – Phone Plus Gold