



# E6000™ Converged Edge Router (CER) Upstream Cable Access Module (UCAM) Technical Specifications

## Specifications

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### RF Upstream

Frequency Range (MHz)	5 to 85 (5 to 65 with Software Release 1.0)
Modulation	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM (No 8 QAM Support in Software Release 1.0)
Channel Type	TDMA, ATDMA, TDMA/ATDMA, SCDMA (No SCDMA Support in Software Release 1.0)
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

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### Physical

Power	-48 VDC (-40 to -72 VDC)
Power Consumption	170 W nominal and TBD 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)	13.8 x 1.2 x 17.8 (35.0 x 3.0 x 45.3)
Weight lbs. (kg)	approx. 4.6 (2.1)

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### Support with Software Release 1.0 (Partial Feature List)

Upstream CAM	Policy-Based Routing
Flexible Mapping of Upstream Channels to RF Connectors	DOCSIS 3.0 24 Channel Bonding (Downstream)
Up to 12 Upstream Channels per RF Connector	DOCSIS 3.0 Four Channel Bonding (Upstream)
24 RF (MCX) Connectors per Physical Interface Card (PIC)	IS-IS, BGPv4
Up to 5+1 RF Sparing	PacketCable™ Multimedia Support
BPI/BPI+ Support	Dynamic Cable Modem Load Balancing
DOCSIS® 3.0 Multicast IP Video Support via IGMPv3 Control	SII Lawful Intercept (RFC 3924)
IPv6 Features	802.1Q VLAN tagging
Cable modem management	Extended ACLs & Named ACLs
Dual-Stack CPE	Secure Shell v2 (SSHv2)
IS-IS Routing with Multi-topology support	DOCSIS Ping
Cable Source Verify with DHCP Lease Query	DHCP Relay Agent (Option 82)
Route Injection (RI) for DHCPv6 Prefix Delegation	DNS Client
OSPFv3	TFTP Enforce and Dynamic Shared Secret
Prefix Stability	BSoD L2 VPN
Distribute Lists	BPI+ Enforce
TFTP Enforce / Dynamic Shared Secret	IPDR/SP
DS and US Subscriber Management Filters	

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# ARRIS Technical Specifications

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## Ordering Information

Part Number	Description
<b>UCAM Kits</b>	
799008	E6000 CER 48 US UCAM Kit (Active) - 1 UCAM, Active UCAM PIC, and 48 DOCSIS US Licenses
801026	E6000 CER 48 US UCAM Kit (Spare) - 1 UCAM, Spare UCAM PIC, and 48 DOCSIS US Licenses
802221	E6000 CER 96 US UCAM Kit (Active) - 1 UCAM, Active UCAM PIC, and 96 DOCSIS US Licenses
802222	E6000 CER 96 US UCAM Kit (Spare) - 1 UCAM, Spare UCAM PIC, and 96 DOCSIS US Licenses
<b>License Bundles</b>	
801062	E6000 CER 48 DOCSIS US License Bundle
<b>Maintenance Plan (required)</b>	
801169	E6000 Software Maintenance – Phone Plus Gold

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Specifications are subject to change without notice.

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