

# E6000™ Converged Edge Router (CER) Downstream Cable Access Module (DCAM) Technical Specifications

### **Specifications**

**RF Downstream** 

Frequency Range (MHz) 57 to 999 (DOCSIS® 3.0); 90 to 1002 (EuroDOCSIS™ 3.0)

Modulation (QAM) 64, 256 (256 Only in Release 1.0)

Data Rate (Mbps) (Max.) 30.34 to 55.62 per channel (42.89 to 55.62 in Release 1.0)

RF Output Level (dBmV) 41 to 60 Typical Modulation Error Ratio 47

(MER) (dB)

Symbol Rate (Msym/sec) 5.361 (DOCSIS); 6.952 (EuroDOCSIS)

Bandwidth (MHz) 6 (DOCSIS), 8 (EuroDOCSIS)

Output (load) impedance (ohms) 75

**Physical** 

Power -48 VDC (-40 to -72 VDC)

Power Consumption: 325 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)  $13.8 \times 1.2 \times 17.8$  ( $35.0 \times 3.0 \times 45.3$ )

Weight lbs. (kg) approx 5.3 (2.4)

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

DCAM

8 RF (F-Connectors) per Physical Interface Card (PIC)

128 Channels (Annex A or Annex B) Hardware capacity for 256 channels Max 16 Channels per RF connector Up to 7+1 RF Sparing in Rel. 1.0

IPv6 Features

Cable modem management

Dual-Stack CPE

IS-IS Routing with Multi-topology support Cable Source Verify with DHCP Lease Query

Route Injection (RI) for DHCPv6 Prefix Delegation

OSPFv3 Prefix Stability Distribute Lists

TFTP Enforce / Dynamic Shared Secret
DS and US Subscriber Management Filters

DOCSIS 3.0 Multicast IP Video Support (via IGMPv3 Control)

Policy-Based Routing

DOCSIS 3.0 24 Channel Bonding (Downstream) DOCSIS 3.0 Four Channel Bonding (Upstream)

IS-IS, BGPv4

PacketCable™ Multimedia Support Dynamic Cable Modem Load Balancing

SII Lawful Intercept (RFC 3924)

802.1Q VLAN tagging

Extended ACLs & Named ACLs

Secure Shell v2 (SSHv2)

DOCSIS Ping

DHCP Relay Agent (Option 82)

**DNS Client** 

TFTP Enforce and Dynamic Shared Secret

BSoD L2 VPN BPI+ Enforce IPDR/SP

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# **ARRIS Technical Specifications**

## **Ordering Information**

Part Number	Description
DCAM Kits	
801025	E6000 CER 128 DS DCAM Kit (Active) - 1 DCAM, Active DCAM PIC, and 128 DOCSIS DS Licenses
801021	E6000 CER 128 DS DCAM Kit (Spare) - 1 DCAM, Spare CAM PIC, and 128 DOCSIS DS Licenses
802117	E6000 CER 128 DS DCAM Kit (Active) - 1 DCAM, Active DCAM PIC, and 128 EuroDOCSIS DS Licenses
802118	E6000 CER 128 DS DCAM Kit (Spare) - 1 DCAM, Spare DCAM PIC, and 128 EuroDOCSIS DS Licenses
801169	E6000 Software Maintenance – Phone Plus Gold

## Specifications are subject to change without notice.

The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice. ARRIS, the ARRIS logo, Auspice®, BigBand Networks®, BigBand Networks®, BigBand Networks®, BigBand Networks®, BME®, BME 50®, BMR®, BMR100®, BMR1200®, G3™, C4®, C4c™, C-COR®, CHP Max5000®, ConvergeMedia™, Cornerstone®, CORWave™, CXM™, D5®, Digicon®, E6000™, ENCORE®, EventAssure™, Flex Max®, FTTMax™, HEMI®, MONARCH®, MOXI®, n5®, nABLE®, nixion®, OpsLogic®, OpsLogic®, Service Visibility Portal™, Opt Max™, PLEXI®, PowerSersaw, QUARTET®, Rateshaping®, Regal®, ServAssure™, Service Visibility Portal™, Opt Max™, PLEXI®, PowerSersaw QUARTET®, Rateshaping®, Regal®, ServAssure™, Service Visibility Portal™, TeleWire Supply®, TLX®, Touchstone®, Trans Max™, VIPr™, VSM™, and WorkAssure™ are all trademarks of ARRIS Group, inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and the names of their products. ARRIS disclaims proprietary interest in the marks and names of others. © Copyright 2013 ARRIS Group, Inc. All rights reserved. Reproduction in any manner whatsoever without the express written permission of ARRIS Group, Inc. In Irrights reserved. Reproduction in any manner whatsoever without the express written

