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 (MER) (dB): 47
- 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 x 1.2 x 17.8  (35.0 x 3.0 x 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
- IS-IS Source Verify with DHCP Lease Query
- Prefix Stability
- Distribute Lists
- TFTP Enforce / Dynamic Shared Secret
- 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

SIFL 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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>801025</td>
<td>E6000 CER 128 DS DCAM Kit (Active) - 1 DCAM, Active DCAM PIC, and 128 DOCSIS DS Licenses</td>
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<tr>
<td>801021</td>
<td>E6000 CER 128 DS DCAM Kit (Spare) - 1 DCAM, Spare CAM PIC, and 128 DOCSIS DS Licenses</td>
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<td>802117</td>
<td>E6000 CER 128 DS DCAM Kit (Active) - 1 DCAM, Active DCAM PIC, and 128 EuroDOCSIS DS Licenses</td>
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<td>802118</td>
<td>E6000 CER 128 DS DCAM Kit (Spare) - 1 DCAM, Spare DCAM PIC, and 128 EuroDOCSIS DS Licenses</td>
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<tr>
<td>801169</td>
<td>E6000 Software Maintenance – Phone Plus Gold</td>
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</tbody>
</table>

Specifications are subject to change without notice.