E6000™ Converged Edge Router (CER)
Router System Module (RSM)

**Specifications**

**Installation Environment**
- Management Interfaces: 10/100/1000 Mbps Ethernet (RJ-45) plus Console (serial port, RJ45)
- Network-side Interfaces: 10 Gigabit Ethernet (SFP+) auto-baud, eight per module
- Connector Access: NSI Ethernet ports via front of chassis, management ports via rear (RSM PIC)

**Management Access**
- In-band Management with Access Control Lists via any NSI port
- Out-of-Band Management via dedicated Ethernet port on RSM PIC
- Console (serial) port on RSM PIC

**Future Capabilities (not supported in Release 1.0)**
- Dedicated Ethernet interface on RPIC for Conditional Access System (CAS)
- Active and Stand-by DTI interfaces on RPIC

**Physical**
- Power: -48 VDC (-40 to -72 VDC)
- Power Consumption: 215 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): 5.1 (2.3)

**Software Release 1.0 Features (Partial List)**
- Downstream CAM (DCAM) (128D Annex A or B)
  - 8 RF (F Connectors) per Physical Interface Card (PIC)
  - 128 Channels
  - Max 16 Channels per RF connector
  - Up to 7+1 RF Sparing in Rel. 1.0
- Upstream CAM (UCAM)
  - Flexible Mapping of Upstream Channels to RF Connectors
  - Up to 12 Upstream Channels per RF Connector
  - 24 RF (MCX) Connectors per Physical Interface Card (PIC)
  - Up to 5+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 (f) for DHCPv6 Prefix Delegation
  - OSPFv3
  - Prefix Stability
- DOCSIS 3.0 Multicast IP Video Support (via IGMPv3 Control)

**Continued on the next page...**
ARRIS E6000 RSM Technical Specification

Specifications Continued…

Regulatory

Designed to NEBS Level 3 Requirements
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

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<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>801023</td>
<td>E6000 CER Duplex Chassis Kit - Two RSMs, No CAMs, Release 1.x</td>
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<tr>
<td>801022</td>
<td>E6000 CER Simplex Chassis Kit - One RSM, No CAMs, Release 1.x</td>
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<td>799012</td>
<td>E6000 CER Router System Module Kit - 1 RSM and RSM PIC</td>
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<td>796836</td>
<td>E6000 CER Router System Module (796836)</td>
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<td>796847</td>
<td>E6000 CER RPIC - Physical Interface Card for RSM (796847)</td>
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