

# E6000<sup>™</sup> Converged Edge Router (CER) Router System Module (RSM)



#### **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)
  $13.8 \times 1.2 \times 17.8$  (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 (RI) for DHCPv6 Prefix Delegation

OSPFv3 Prefix Stability

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 MIC

BSoD L2 VPN BPI+ Enforce IPDR/SP

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# **ARRIS E6000 RSM Technical Specification**

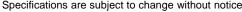
## **Specifications Continued...**

#### 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**

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



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