



V Rose Microsystems, Inc.

www.vrosemicrosystems.com

VRM-NSPM-5000

Product Data Sheet

Overview:

The VRM-NSPM-5000 is a single slot AdvancedTCA module suitable for high performance packet processing applications including security gateway, edge router, 3G wireless and WiMAX. Combined with industry leading performance Cavium OCTEON(TM) Plus multi-core processors provides maximum 20Gbps performance and enables flexible network interfaces. In addition, intelligent traffic control for OCTEON(TM) processors by high-performance fabric switch provides superior system flexibility for fault isolation and data path reconfiguration. The VRM-NSPM-5000 is compliant with PICMG 3.1 option 1 and 9.



Features:

Physical: 8U * 6HP * 280mm AdvancedTCA, single slot, PICMG 3.0 and PICMG 3.1 (option 2, 9 selective)

Processor: Dual Cavium OCTEON Plus CN5860, 16 independent MIPS 64 core @ 750MHz, two processors configurable in dual-pipelined(bi-directional)

Memory: 128MB Flash per network service processor, 2 channels of up to 4GB to provide max 8GB per network service processor, Memory speed of 667MHz ECC Registered CLP type, two RLDRAM channels with 1Gbits

I/O Interface: 10 * 1 Gigabit Ethernet with SFP optic, 10 * 10/100/1000Base-T Ethernet, 2 * 10GBe with SFP+ optic.

Fabric Interface: Compliant with PICMG 3.1 option 2 and 9.

Shelf Management: HW Mgmt per ATCA PICMG 3.0 Includes IPMI management FRU HW management, shelf environment management (power, cooling) and shelf annunciator management.

Front Panel Connectors: RJ-45 10/100/1000Base-T Ethernet Ports, RJ-45 Serial Port, 1 x single-width mid-height (AMC.1/.2/.3 specification compliant)

Connectors: ATACa Zone 2, 2 channels of Gigabit Ethernet without PHY connectivity to ATCA Zone 2 (PICMG 3.1 option 2 and 9)

LEDs: Hot Swap (Blue), OOS(Red), Power(Green), Gbe Port Status (Tri), 2 GBE Ling Status (Green)

Power: Up to 200W max, Input range: 39.5~72 VDC, Dual-redundant -48V Rail

Environment: +5 to 45C (operating), -40 to 70C (storage)

Warrenty: Two years, parts only

Ordering:

VRM-NSPM-5000: Multi-core Network Processor based ATCA module.