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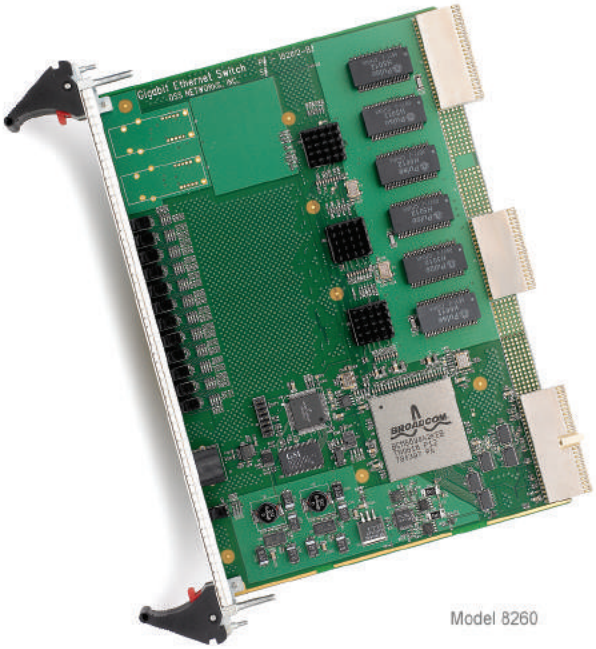
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Find the *DSS Networks 8260* at our website: *Click HERE*

dss networks
The Gigabit Experts™

METRO-SWITCH MODEL 8260

PRODUCT DATASHEET



Model 8260

PRODUCT DESCRIPTION

COMPACT PCI / VITA 31.1 SERIES - HIGH PERFORMANCE 12-PORT PICMG 2.16 COMPLIANT GIGABIT ETHERNET SWITCH FABRIC

DSS Network's Metro-Switch Model 8260 is an advanced high-performance, full-featured L2+/L3 6U Gigabit Ethernet switch fabric board. It features 12 ports of 10/100/1000 Base T Gigabit Ethernet over copper. It is PICMG 2.16 fabric card compliant and compatible with standard CPCI, PICMG 2.16 and VITA 31.1 backplanes. All 12-ports may be routed to slots on the backplane or externally via rear I/O. It has an onboard RISC microcontroller for onboard management and can be operated as a standalone "plug and run" or as a fully managed switch using 3rd party management software. LEDS are provided for each port showing link status, transmit and receive and link quality. All LEDS are multifunction and can be used for additional functions including cable testing and energy detection. It is also PICMG 2.1 R2.0 hot-swap compliant providing support for the hardware connection layer.

The model 8260 uses the latest advanced high-performance, full-featured and highly integrated 12-port Broadcom BCM5696 or BCM5698 multi-layer switch and BCM5464SR quad-port transceivers and is fully 802.3 compliant. It provides a fully non-blocking 24Gb/32 million frames per second aggregate switching fabric. The switching function supports a 10gig uplink interface as a product variant. The switch can be configured in a fully redundant, non-blocking network that prevents single points of failure from congesting network traffic. It provides advanced cell and packet based "head of line" blocking prevention techniques, has 1MB of onboard memory for packet buffering, and supports a 10-gig uplink interface. Extended Ethernet frame sizes to 9KB are supported. Additional advanced features including rules-based layer 2-7 packet classification/filtering on 128 multiple data flows, port trunking and port mirroring are provided for advanced networking and flow techniques. Network management support includes fully configurable routing tables and RMON, SNMP, Ethernet and extended MIB(s). A 32-bit, 66 MHZ PCI interface is also provided to support a fully managed switch compatible with 3rd part management software. It can additionally route packets to/from the PCI interface using DMA capabilities.This would allow for example, SNMP or other management packets to be routed to an external processing component for distributed network management capabilities.

The Metro-Switch model 8260 12-port switch is targeted for OEMs and Systems Integrators for use in Data and Telecommunications products including switches, multiplexers, edge routers, media gateways, video broadcasting equipment and storage networks. It is well suited for support of embedded broadband applications including multi-service access switching and routing, VoIP, digital video and audio, IP security, network monitoring, military applications and test equipment.

The model 8260 is available with an OEM Developers Kit containing onboard firmware, device drivers, library functions, configuration management interfaces, loopback tests, benchmark programs, statistics and documentation.

POWER AND OPERATING TEMPERATURE

- Power supply: Uses single 5V
- Power consumption: Est. @ 16W
- Operating temperature: 0-70° C ambient

MANAGEMENT: DRIVER AND FIRMWARE SUPPORT

- Linux versions 2.4, 2.6
- MontaVista Embedded Linux
- Firmware for management processor
- Multiple fabric card support
- Configuration, statistics, status and diagnostics
- Compatible with 3rd party management software

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PRODUCT DATASHEET

SPECIFICATIONS

- PICMG 2.16 R1.0 / VITA 31.1 packet switching backplane compliant
- Occupies fabric board slot, up to two per chassis
- PICMG 2.9 R1.0 IPMI support
- PICMG 2.0 R3.0 CompactPCI compliant - 6U form factor
- PICMG 2.1 R2.0 hot-swap (hardware connection layer)
- IEEE specifications: 802.3, 802,1D, 802.1Q, 802.1s, 802.3x, 802.3z
- 12 ports 1000 Base T routed to backplane
- Support for IPv4 and IPv6 (L3 IPv4 routing table support)
- Support for jumbo frames of up to 9 KB in size
- Blinking initialization/run LED
- 10-Gigabit Ethernet fiber uplink (standard product variant)

PERFORMANCE AND SWITCHING CAPABILITIES

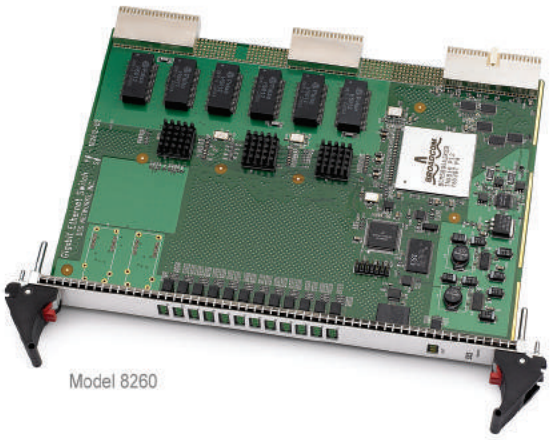
- Line speed multi-layer switching on all 12-ports
- Performance category: 32 million packets-per-second/24Gb line rate switching
- 16384-entry ARL MAC address table (L2 table), automatic learning
- Integrated 4096-entry IPv4 host table (L3 table)
- Port trunking and mirroring support (32 trunk groups with link aggregation)
- Integrated 1MB packet memory
- Rapid spanning tree protocol support
- VLAN 802.1D, 802.1Q support (4096 VLANS, 8 Classes of service per port)
- IP multicasting
- Packet classification and L2-L7 filtering
- Traffic metering and shaping
- Advanced flow-control and head-of-line blocking prevention, packet aging, storm control
- Advanced fast filter processor and rules-based matching
- Facilitates seamless integration of voice, video, and data traffic through low-latency and advanced QoS
- Support for 802.1p, TOS/DiffServ, policing, shaping, marking, and remarking
- All address tables and buffer memory fully integrated on-chip

MANAGEMENT FEATURES

- Can be operated in managed or unmanaged mode
- Standalone plug-and-run unmanaged operation
- Compatible with 3rd party fully managed solutions
- External management mode via PCI bus interface
- Onboard management provided by microprocessor and firmware
- Management functions for all onboard devices
- Configuration, status, statistics, diagnostics and healthy status

HARDWARE SPECIFICATIONS

- Broadcom BCM5696 or BCM5698 (product variants)
- Broadcom BCM5464SR 4-port gigabit transceivers with Serdes
- Motorola DSP56F826 management processor, 80 MHZ
- PICMG 2.1 R2.0 hot-swap support for hardware connection layer
- IPMI management interface
- 32-bit, 66 MHZ PCI bus interface
- Serial I2C EEPROM for configuration parameters, up to 128K X 8
- 4 multi-function LEDS per port, 3 CPU controlled multi-function LEDS
- 12-port rear I/O module with ganged CAT5 RJ-45 connectors
- Vita 31.1 compatible



Model 8260



Model 8261-RIO

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