EMRRS-262G

Ultra-Compact High-Density 10/100/1000 Ethernet Routing Switch is 10/100/1000 Ethernet Routing switch provides high performance in a super-compact, super-efficient size. The EMRRS-262G small size, only 1.4" in height, combines the capacity of physically larger backbone switches with the economy of workgroup switches.

Very high port density means that a single EMRRS-262G Compact Routing can support up to 22 Gigabit Ethernet auto sensing 10/100/1000 Ethernet ports. The EMRRS-262G Compact Routing Switch is the optimal platform for many applications, from the Metro access arena to the Metro edge and enterprise boundaries. Data centers, server farms, wiring closets and other application users can benefit from its uncompromised standards-compatibility (for flawless interoperability), its modular support of various interfaces that guarantees easy upgradeability and scalability, and its feature-rich routing capabilities make the EMRRS-262G a versatile, effective platform for any IP-based service. Copper Gigabit Ethernet provides cost-effective high-speed uplink and cascading capabilities .

The EMRRS-262G includes a1 GHz 8544 PowerPC processor that gives you coolest implementation of a E500 core with plenty of features. With a requirement as low as 15 Watts [(typ.) for the CPU only] between -40° and + 71°C, it is a major breakthrough for small form factor rugged computers.

Applications targeting Vetronics and onboard UAV which operate on a tight power budget will welcome its innovative design.

Features

- Non blocking Gigabit Ethernet Switch
- Enterprise Class switching functions
- Fully managed L2 solution (L3 upgradable)
- Up to 22x 1000BASE-T Uplinks
- 10/100/1000BASE-T Management Port
- Freescale MPC8544 running at 1 GHz
- 32-bit PowerPC E500 Core
- Double precision embedded scalar and vector floating-point APUs
- Memory Management Unit (MMU)
- Integrated Security Engine

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* Subject to validation testing. Subject to change at any time. Documentation available upon request.
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Performance Upgradeability

Quality Of Service on all ports (IEEE 802.1p)
Static link aggregation (IEEE 802.3ad) on any port combination Classic, rapid and multiple spanning tree support (802.1D, 802.1w, 802.1S). Full duplex operation and flow control on all ports (IEEE 802.3x). Static MAC filtering, port authentication (IEEE 802.1X)
Layer 2 multicast services using GARP/GMRP (IEEE 802.1p)
VLAN support including VLAN tagging (IEEE 802.3ac), dynamic
VLAN registration with GARP/GVRP (IEEE 802.1Q) and protocol based VLANs (IEEE 802.1v)
Double VLAN tagging, port mirroring, IGMP snooping
Routing Protocols (Optional) Include OSPFv2, RIPv2, VRRP, VLAN routing and DHCP relay Switch Management Fully managed L2 switch via SNMP, TELNET, CLI Out of Band (front panel FE) or In-band via Fabric

The system is designed to meet the following conditions		
Temperature	Operating	-0 - +55 oC
	Intermittent	-40 - +71 oC
	Non-Operating	-40 - +85 oC
Humidity	Operating/Storage	95% at 35OC
Vibrations	Transportation	Loss Cargo per MIL-STD-810F, Method 514.4. fig 514.5C-1
	Functional	Aircraft vibration per MIL-STD-810F, Method 514.4. based on fig 514.4C-8 and 514.5C-9
	Endurance	Aircraft vibration per MIL-STD-810F, Method 514.4. based on fig 514.4C-8 and 514.5C-9
Shock	Operating	MIL-STD-810E Method 516.4 Procedure I. (20g for 11msec)
Explosive		MIL-STD-810F, Method 511.4. Porc. I
Dust		MIL-STD-810F,Method 510.4, Proc. I
EMI/RFI		MIL-STD-461, Class 3
Drip Proof		MIL-STD-810F Method 506.4 Proc. III
Altitude	Operating	From S.L. to 45,000 FT
	Non-Operating	From S.L. to 45,000 FT
Physical Characteristics	Size	2.8” H x 10” W x 14.25” D
	Weight	2.5 Kg.
	Power	20 - 30 VDC MIL-STD-704E

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