



MILTECH™ 9128

PCB level Ethernet Switch, 1GE Managed 24-Port Ethernet Router/Switch + 4 ports 10G

FEATURES DESCRIPTION

The MILTECH 9128 is specifically designed for the complex traffic management of advanced optics with ultra-high megapixel resolution on rugged manned and unmanned military and civilian mobile, tactical, airborne vehicle platforms for situational awareness and network-centric operations.

With 24 triple-speed (10/100/1000Mbps) ports + 4 ports 10G, the MILTECH 9128 features both L2/L3 network switching and routing capabilities, including virtual LANS (VLANS), traffic prioritization/QoS, IPv4/IPv6 support, and bandwidth aggregation. It supports all the latest networking protocols for redundancy, security, multicast, and management.

With the industry's smallest footprint, the MILTECH 9128 measures only 90mm by 90mm to offer the best

performance and combination of size, weight, and power (SWaP) in the industry, saving valuable real estate for devices that make mobile platforms highly effective. Its 1GE transmission speeds and 3.3VDC power make it instantly compatible with network devices and power systems.

Conformally coated and with board-to-board connectors, it can easily be integrated as a module-based network building block in any military-grade communications platform. The MILTECH 9128 PCB level communication solution will withstand working temperatures of -45°C to +85°C and will comply with MIL-STD-810 & MIL-STD-461 (when incorporated in a suitable enclosure).

SPECIFICATIONS

NETWORKING:

- Wire-speed hardware-based 24 Ports Gigabit + 4 ports 10 Gigabit Ethernet switch – L2, L3, L4 Capabilities
- L3-Routing capabilities:static,RIPV1,V2,OSPF V2/V3 Multicast Routing, BGP4*,VRRPECMP Routing
- Multicasting (IGMP Snooping), GARP, GMRP, MLD and GVRP up to 8K groups for both IPv4 and IPv6
- Broadcasting and flooding Control up to 8K Groups
- 802.1q Tagged based VLAN up to 4K VLAN groups
- Bridge Support for VLAN Q-in-Q , manual tunneling
- Link Aggregation 802.3ad, up to 16 members in group
- Link Aggregation mechanism based on L2/ L3/ L4 parameters
- WEB, CLI, Telnet , SNMP V2/V3 management





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- MIL-STD-461E | MIL-STD-810F GM | IP67

*When incorporated in a suitable enclosure



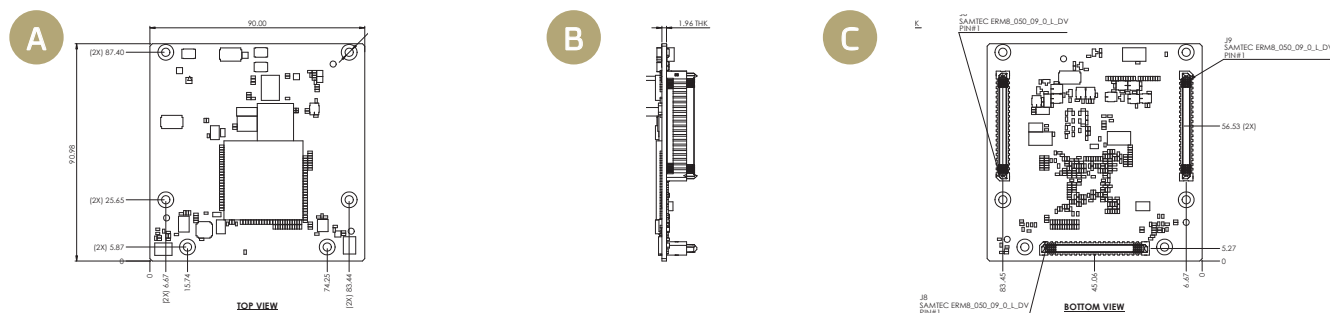
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SPECIFICATIONS

PERFORMANCE:	96.8 Mpps wire speed forwarding rate 56 Gbps maximum forwarding bandwidth 8K MAC Address
POWER:	3.3VDC - Power Consumption: 25W Typical
ELECTROMAGNETIC:	- MIL-STD-461E Electromagnetic compatibility - CE-102, CS-114, CS-115, CS-116, RE-102, RS-103 *When incorporated in a suitable enclosure
SHOCK/VIBRATION/HUMIDITY:	- MIL-STD-810F; 501.4I 501.4II 502.4I 502.4II 507.4 500.4II 514 516I 516VI 514.5 512.4 *When incorporated in a suitable enclosure
PHYSICAL:	- Dimensions: 90mm (L) x 90mm (W) - Dimensions: 3.5" (L) x 3.5" (W)
COOLING:	No Moving Parts. Passive Cooling.
OPERATING TEMP:	-45°C to +85°C (-49°F to +185°F) Cold Start-Up
STORAGE TEMP:	-45°C to +85°C (-49°F to +185°F)

* Currently not supported – software upgrade option.



*All measurements are in millimeters

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1-9128-000	PCB Level Ethernet Gigabit Switch, 24 x 10/100/1000TX + 4 x 10G ports
1-9128EV-000	Evaluation board for MILTECH9128
1-CP-9128-000	Cooling base plate for MILTECH9128