



MILTECH™ 914

Military Grade Gigabit Ethernet Switch On Board (GESoB)

One of the most exciting advancement in technology over the last decade has been unmanned vehicles including:

- Unmanned aerial vehicles (UAVs) or Drones
- Land autonomous vehicles (UGVs)
- Robots
- Other unmanned support vehicles

These vehicles must be agile, compact and highly intelligent. In order to support this sophisticated intelligence, these platforms may have to carry and connect a variety of Ethernet-based devices including computers, sensors, and targeting systems - all in compact platforms that must operate in extreme environmental conditions.

The MILTECH914 is cost-effective, ultra-compact board-

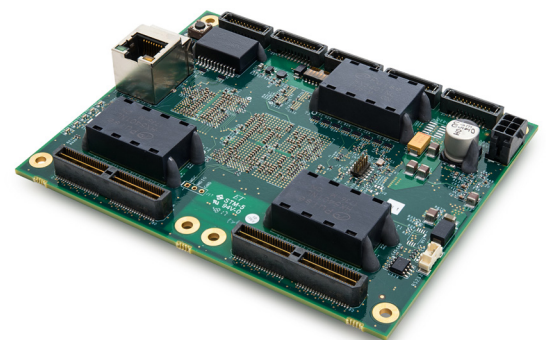
level Ethernet switching solution that is the most compact solution available on the market today. This board-level switch is ideal for integrating in to system level solutions being developed with size, weight, power and cost (SWaP-C) at top of mind .

Advanced network features, never before found in a package of this size, include switching protocols, virtual LANS (VLANs), traffic prioritization (QoS), and bandwidth aggregation are standard.

The MILTECH914's gigabit speeds and 9-16VDC power make it instantly compatible with any network device and power systems.

SPECIFICATIONS

ETHERNET PORTS	<ul style="list-style-type: none"> • Managed 14 x switched 10/100 /1000 ports
NETWORKING	<ul style="list-style-type: none"> • Spanning Tree (802.1d), RSTP (802.1w) and multiple Spanning Tree (802.1S) for fast recovery rings • Security via Radius Authentication 802.1x, Port Security, Port Mirroring • Multicasting (IGMP Snooping), GARP, GMRP, and GVRP Broadcasting and flooding Control up to 8K Groups. • 802.1q Tagged based VLAN up to 4K VLAN groups. • QoS Multi-Layer Classifier, 802.1p, ToS/DSCP traffic classification. WFQ, Strict Queuing. • Bridge support for Q-in-Q. • L3 static routing • Link Aggregation 802.3AD. • WEB, CLI, Telnet Management. • Rmirror* • Port Protection: 1+1 port protection, 1:1 port protection, 1:N port protection* • G.8032 ring protection* • DHCP option 82 relay* • L2CP tunneling* • Protocol-based VLAN* • 1558v2 PTP with two-step clock* <p>*Available in part number 1-914-100</p>
CONNECTORS	<ul style="list-style-type: none"> • 8 LAN Channels - 2 x Samtec QTE-040-02-L-D-A • 5 LAN Channels - 5 x Samtec TFM-110-02-L-D-WT • 1 LAN Channels - ERNI 203342/3 • 1 Console - Molex 53398-0371 • 1 Power - Molex 43045-0612
STANDARDS	<ul style="list-style-type: none"> • MIL-STD-461E, MIL-STD-810F GM, IP68 when installed in an appropriate chassis



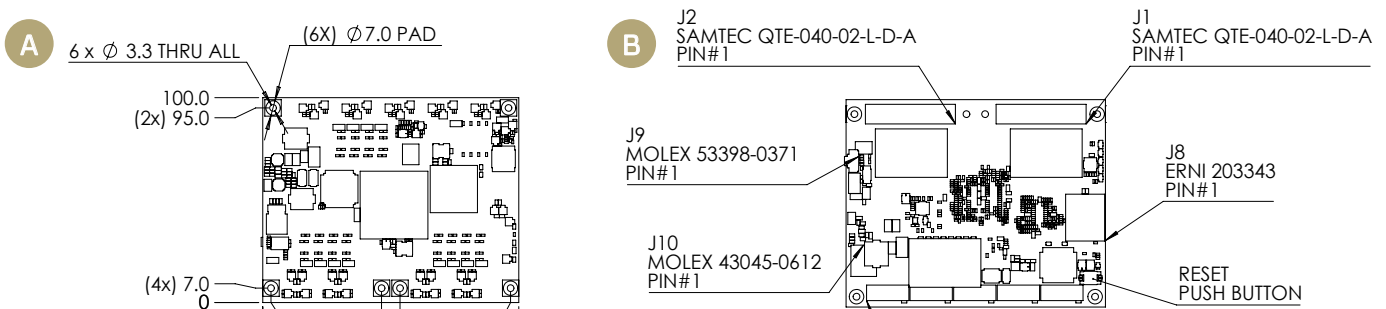


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SPECIFICATIONS

PERFORMANCE	<ul style="list-style-type: none"> 26.8 Mpps wire speed forwarding rate 20 Gbps maximum forwarding bandwidth 8K MAC Address
STANDARDS COMPLIANCE	<ul style="list-style-type: none"> IEEE 802.1x MAC based Authentication IEEE 802.1Q Vlan Tagging IEEE 802.1P QoS IEEE 802.1S Multiple STP IEEE 802.1W Rapid STP IEEE 802.1AD Link Aggregation IEEE 802.1X
POWER	<ul style="list-style-type: none"> Voltage Input: 9-16VDC Power Consumption: 14W Typical
ELECTROMAGNETIC	<ul style="list-style-type: none"> MIL-STD-461E Electromagnetic compatibility CE-102, CS-114, CS-115, CS-116, RE-102, RS-103 (when installed in an appropriate chassis)
ENVIRONMENTAL	<ul style="list-style-type: none"> MILSTD-810F/G/GM: Random vibration (514.5I), Bench Handling (516.6VI), High Temp.(501.5I,II), Low Temp.(502.5I), Humidity (507.5II), Air Pressure (500.5I,II), Blowing Rain (506.5I), Immersion (512.5I), Salt Atmosphere (509.5I), Blowing Dust (510.5I), Loose Cargo Vibration (514.6II), Wind Analysis (when installed in an appropriate chassis)
PHYSICAL	<ul style="list-style-type: none"> Dimensions: 125mm (L) x 100mm (W) x 20(H) Dimensions: 4.92" (L) x 3.93" (W) x 0.79" (H)
INSTALLATION	<ul style="list-style-type: none"> 6 x mounting holes for board to board mounting
COOLING	<ul style="list-style-type: none"> No Moving Parts. Passive Cooling.
OPERATING TEMP	<ul style="list-style-type: none"> -45°C to +85°C (-49°F to +185°F) Cold Start-Up
STORAGE TEMP	<ul style="list-style-type: none"> -45°C to +85°C (-49°F to +185°F)



ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1-914-000	Manage Military Grade Gigabit Ethernet Switch, 14 x 10/100/1000TX
1-914-100	Enhanced Manage Military Grade Gigabit Ethernet Switch, 14 x 10/100/1000TX
1-CP914-000	Cooling base plate for MILTECH914