



# MILTECH™ 919

## Military Grade Gigabit Ethernet Switch On Board (GSoB)

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 MILTECH919 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. An evaluation board is available for the MILTECH919, allowing full testing and validation of the MILTECH919.

The MILTECH919's gigabit speeds and 24VDC power make it instantly compatible with any network device and power systems.

### SPECIFICATIONS

<b>ETHERNET PORTS</b>	<ul style="list-style-type: none"> <li>• Managed 8 x switched 10/100 /1000 ports</li> <li>• 1 X 100/1000 fiber port</li> </ul>
<b>NETWORKING</b>	<ul style="list-style-type: none"> <li>• Spanning Tree (802.1d), RSTP (802.1w) and multiple Spanning Tree (802.1S) for fast recovery rings</li> <li>• Security via Radius Authentication 802.1x, Port Security, Port Mirroring</li> <li>• Multicasting (IGMP Snooping), GARP, GMRP, and GVRP Broadcasting and flooding Control up to 8K Groups.</li> <li>• 802.1q Tagged based VLAN up to 4K VLAN groups.</li> <li>• QoS Multi-Layer Classifier, 802.1p, ToS/DSCP traffic classification. WFQ, Strict Queuing.</li> <li>• Bridge support for Q-in-Q.</li> <li>• L3 static routing</li> <li>• Link Aggregation 802.3AD.</li> <li>• WEB, CLI, Telnet Management.</li> <li>• Rmirror*</li> <li>• Port Protection: 1+1 port protection, 1:1 port protection, 1:N port protection*</li> <li>• G.8032 ring protection*</li> <li>• DHCP option 82 relay*</li> <li>• L2CP tunneling*</li> <li>• Protocol-based VLAN*</li> <li>• 1558v2 PTP with two-step clock*</li> </ul> <p>*Available in part number 1-919-100</p>
<b>CONNECTORS</b>	<p>1 x Samtec board to board connector to represent:</p> <ul style="list-style-type: none"> <li>• Power input</li> <li>• LAN ports</li> <li>• Fiber ports</li> <li>• Management RS-232</li> </ul> <p>MT module connector: 1 x SAMTEC ERM8-050-02.0-L-DV-TR</p> <ul style="list-style-type: none"> <li>• LED Indication Per Port (Link/Activity)</li> </ul>



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