



# MILTECH™ 912

Compact, Portable Military Managed Gigabit Ethernet Switch

## FEATURES

Driven by rapid advancement and lower costs, Ethernet is becoming the standard for IP-based components in a wide range of military and commercial applications, including:

- Vetronics
- Manned and unmanned vehicles
- Aerial environments

The MILTECH912 is a MIL-STD, fully managed military grade network switch offering 12 triple-speed (10/100/1000Mbps) connections. It can be remotely managed to optimize communications and prioritize critical information traffic. 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.

With the best combination of size, weight, power and cost (SWaP-C) in the industry, it saves valuable real estate for computers, sensors, targeting systems, and other devices.

The MILTECH912's gigabit speeds and 24VDC power make it instantly compatible with any network device and power systems in these mobile platforms.

The MILTECH912 is widely used in battlefield communications C4ISR, video, sensor data acquisition and transmission. Its mechanical packaging enhancements, including two ruggedized D38999 circular connectors, is designed for MIL-STD-810F airborne and ground environmental compliance and high reliability. Leveraging best-in-class switching technology, the MILTECH912 serves as a robust commercial off-the-shelf (COTS) solution for rugged LAN connectivity.

## SPECIFICATIONS

<b>ETHERNET PORTS</b>	<ul style="list-style-type: none"> <li>• Managed 12 x switched 10/100 /1000 ports</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>• Link Aggregation 802.3AD.</li> <li>• WEB, CLI, Telnet Management.</li> <li>• L3 static routing</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>• 1588v2 PTP with two-step clock*</li> </ul> <p>*Available in part numbers 1-912-101, 1-912-102</p>
<b>CONNECTORS</b>	<ul style="list-style-type: none"> <li>• Power Connector Type: D38999/24WB35PN*</li> <li>• LAN Connector Type: D38999/24WF35PN*</li> <li>• LED Indication Per Port (Speed, Link/Activity)</li> </ul> <p>* See ORDERING INFORMATION for other connector plating options</p>





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<b>CHASSIS</b>	<ul style="list-style-type: none"> <li>Machined rugged aluminum</li> <li>Conductively cooled w/custom internal heat-sinks</li> <li>Ingress protection against sand, dust and moisture</li> <li>Anodize Coating, MIL-A-8625, Type II, Class 2</li> </ul>
<b>STANDARDS</b>	<ul style="list-style-type: none"> <li>MIL-STD-461E, MIL-STD-810F GM, IP67, MILSTD-1275, MILSTD-704</li> </ul>
<b>PERFORMANCE</b>	<ul style="list-style-type: none"> <li>26.8 Mpps wire speed forwarding rate</li> <li>52 Gbps maximum forwarding bandwidth</li> <li>8K MAC Address</li> </ul>
<b>STANDARDS COMPLIANCE</b>	<ul style="list-style-type: none"> <li>IEEE 802.1x MAC based Authentication</li> <li>IEEE 802.1Q Vlan Tagging</li> <li>IEEE 802.1P QoS</li> <li>IEEE 802.1S Multiple STP</li> <li>IEEE 802.1W Rapid STP</li> <li>IEEE 802.1AD Link Aggregation</li> <li>IEEE 802.1X</li> </ul>
<b>POWER</b>	<ul style="list-style-type: none"> <li>MIL-STD-1275B Surge and Spike protection</li> <li>Voltage Input: 24Vdc Nominal (16-36V)</li> <li>Power Consumption: 7W Typical</li> <li>Chassis grounding</li> </ul>
<b>ELECTROMAGNETIC</b>	<ul style="list-style-type: none"> <li>MIL-STD-461E Electromagnetic compatibility</li> <li>CE-102, CS-114, CS-115, CS-116, RE-102, RS-103</li> </ul>
<b>ENVIRONMENTAL</b>	<p>MILSTD-810F/G/GM:</p> <ul style="list-style-type: none"> <li>Random vibration (514.5I), Bench Handling (516.6VI), High Temp.(501.5I,II), Low Temp.(502.5I), Humidity (507.5II),</li> <li>Air Pressure (500.5I,II), Blowing Rain (506.5I), Immersion (512.5I), Salt Atmosphere (509.5I), Blowing Dust (510.5I),</li> <li>Loose Cargo Vibration (514.6II), Wind Analysis.</li> <li>IP67</li> </ul>
<b>PHYSICAL</b>	<ul style="list-style-type: none"> <li>Dimensions: 178mm(L) x 136mm(W) x 47mm(H), including connectors</li> <li>Weight: 1.150 kg</li> <li>Dimensions: 7.1"(L) x 5.4"(W) x 1.85"(H), including connectors</li> </ul>
<b>INSTALLATION</b>	<ul style="list-style-type: none"> <li>Set of four # 10-32UNF Captive Screws</li> <li>* Part Number 1-912-002 will be supplied with four 4-40 threads for mounting</li> </ul>
<b>COOLING</b>	<ul style="list-style-type: none"> <li>No Moving Parts. Passive Cooling.</li> </ul>
<b>OPERATING TEMP</b>	<ul style="list-style-type: none"> <li>-45°C to +80°C (-49°F to +176°F) Cold Start-Up</li> </ul>
<b>STORAGE TEMP</b>	<ul style="list-style-type: none"> <li>-45°C to +85°C (-49°F to +185°F)</li> </ul>

