



# MILTECH™ 304

## Compact, Portable Military Fast Ethernet Switch

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

The MILTECH304's ultra-compact, IP68 rugged construction, and Fast Ethernet make it the ideal switching solution for command post, man packable and UAV systems. Its four 10/100Mbps ports are plug-n-play with all Ethernet equipment and provide network connectivity for most portable Ethernet devices, including:

- Helmet-mounted heads-up displays
- Computers
- Navigation devices
- Communications systems
- IP-based sensors

With the best combination of size, weight, power and cost (SWaP-C) in the industry, the MILTECH304 reduces load on the soldier, providing more space for equipment that increases effectiveness and survivability.

The MILTECH304 operates on readily available 5VDC power and may easily be powered from computers and other devices with USB ports. The MILTECH's mechanical packaging enhancements, including ruggedized SCE2 circular connectors, is designed for MIL-STD-810F airborne and ground environmental compliance and high reliability. Leveraging best-in-class switching technology, the MILTECH 304 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>• 4 x switched 10/100 (Fast Ethernet) ports</li> </ul>
<b>NETWORKING</b>	<ul style="list-style-type: none"> <li>• Full wire-speed forwarding rate</li> <li>• Store-and-forward mechanism</li> <li>• Auto MDI-II, MDI-X</li> <li>• Auto-Negotiation Protocol</li> <li>• Address Look-Up</li> </ul>
<b>CONNECTORS</b>	<ul style="list-style-type: none"> <li>• Power Connector: SCE2-B-76A06-075N-001</li> <li>• LAN Connector: SCE2-B-76A06-075N-001</li> <li>• LED Indication Per Port (Link/Activity)</li> </ul>
<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>• MILSTD-461E, MILSTD-810F/G/GM, IP68</li> </ul>
<b>PERFORMANCE</b>	<ul style="list-style-type: none"> <li>• 128K Byte of SRAM for Frame Buffering</li> <li>• 2.0Gbps High-Performance Memory Bandwidth</li> <li>• Wire-Speed Reception and Transmission</li> </ul>





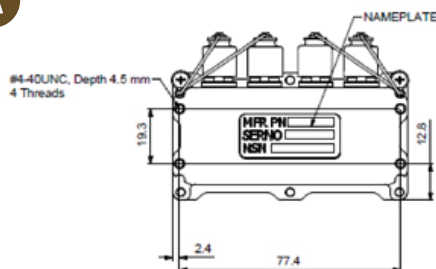
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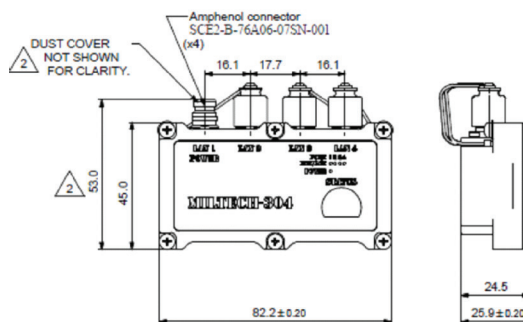
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<b>STANDARDS COMPLIANCE</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3 10 Mbps 10BASE-T (Ethernet)</li> <li>• IEEE 802.3u 100BASE-TX 100 Mbps (Fast Ethernet)</li> <li>• IEEE 802.3x Flow Control</li> </ul>
<b>POWER</b>	<ul style="list-style-type: none"> <li>• Voltage Input: 5Vdc Nominal - Supports USB Sourcing</li> <li>• Power Consumption: 2W 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>	<ul style="list-style-type: none"> <li>• MILSTD-810F/G/GM:</li> <li>• 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, Acoustic Noise.</li> <li>• IP68</li> </ul>
<b>PHYSICAL</b>	<ul style="list-style-type: none"> <li>• Dimensions: 82.2mm (L) x 53(W) x 26(H), Not including connector Dust Caps</li> <li>• Weight: 130g – Not including dust caps</li> </ul>
<b>INSTALLATION</b>	<ul style="list-style-type: none"> <li>• Portable, 4 screws for mounting to any flat surface</li> <li>• 4 x 4-40 UNC screws with locking helicoils</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 +85°C (-49°F to +185°F) – Cold Start-Up</li> </ul>
<b>STORAGE TEMP</b>	<ul style="list-style-type: none"> <li>• -51°C to +85°C (-60°F to +185°F)</li> </ul>

**A**



**B**



### ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1-304-000	• MILTECH304, 4 x 10/100 TX MIL-STD rugged switch
2-CBL308LN3M	• LAN Harness for MILTECH308/304 MIL-SCE circular connector to RJ45, 3 meter length
2-CBL308PW3M	• Power +LAN Harness for MILTECH308/304 MIL-SCE circular connector to RJ45 and 2 wire , 3 meter length