



# MILTECH™ 610PoE

Military-grade Fast Ethernet PoE Switch

## PRODUCT DESCRIPTION

Techaya's MILTECH™ 610PoE is a military-grade Power over Ethernet (PoE) switch that supports 30W of PoE on all 8 Fast Ethernet 10/100 Ports - giving a total PoE power budget of 240 watts to power both 802.3af and 802.3at standard devices.

MILTECH™ 610PoE is ideal for mobile Ethernet-equipped platforms, such as vetronic, ground vehicles and aerial applications where traditional power sources have limited availability and supports COTS guidelines for PoE-enabled cameras, WiFi access points, mesh nodes and other devices.

Developed for military and harsh environment applications, the MILTECH™ 610PoE features mechanical packaging enhancements designed for MIL-STD-810F airborne and ground environmental compliance and high reliability. The unit has been especially hardened to improve ingress, impact, and shock/vibration protection, as well as eliminate all moving parts through passive cooling, and interface through sealed MIL-D-38999 circular connectors.

## SPECIFICATIONS

<b>ETHERNET PORTS:</b>	<ul style="list-style-type: none"> <li>8 x PoE+, 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: D38999/24WA98PA</li> <li>LAN Connector: D38999/24WA355N</li> <li>Indication Per Port (Link/Activity, Speed, PoE)</li> </ul>
<b>CHASSIS:</b>	<ul style="list-style-type: none"> <li>Low profile 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-1275   MILSTD-704A   MILSTD-461E</li> <li>  MILSTD-810F GM   IP67</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>2LED indication (Speed, Link/Activity) per port</li> <li>Wire-Speed Reception and Transmission</li> <li>Integrated Address Look-Up Engine</li> <li>Automatic Address Learning</li> </ul>



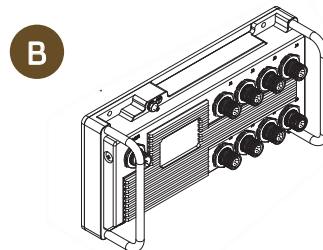
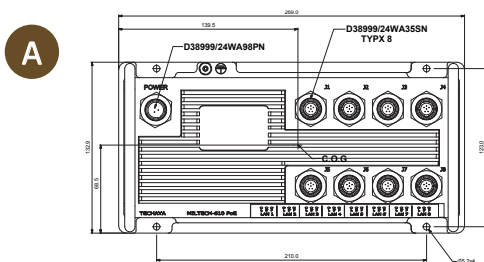


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<b>STANDARDS COMPLIANCE:</b>	<ul style="list-style-type: none"> <li>IEEE 802.3 10 Mbps 10BASE-T (Ethernet)</li> <li>IEEE 802.3u 100BASE-TX 100 Mbps (Fast Ethernet)</li> <li>IEEE 802.3x Flow Control</li> <li>IEEE 802.3af, IEEE 802.3at</li> </ul>
<b>POWER:</b>	<ul style="list-style-type: none"> <li>MIL-STD-1275B &amp; MIL-STD 704A Surge and Spike protection</li> <li>Voltage Input: 24Vdc Nominal (18-32V)</li> <li>Power Consumption: 6W Typical</li> <li>Chassis grounding</li> </ul>
<b>PoE:</b>	<ul style="list-style-type: none"> <li>Total PoE Budget 240W</li> <li>Maximum Consumption per port 30W</li> <li>Dynamic Power Allocation</li> <li>PoE Priority per port</li> <li>Full Comply to IEEE 802.3af, IEEE 802.3at</li> <li>No Power Degradation at +85°C</li> <li>Operates from Regular Military 24Vdc</li> <li>No need for additional PoE 48Vdc Input</li> <li>Optional GUI/Web Application for PoE Management</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   R5-103</li> </ul>
<b>SHOCK/VIBRATION/HUMIDITY:</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. IP67</li> </ul>
<b>PHYSICAL:</b>	<ul style="list-style-type: none"> <li>Dimensions: 269mm (L) x 133mm(W) x 61mm(H), including connectors</li> <li>Dimensions: 10.6"(L) x 5.2"(W) x 2.4"(H), including connectors</li> <li>Weight: 1.5kg</li> </ul>
<b>INSTALLATION:</b>	<ul style="list-style-type: none"> <li>Four 4x5.2 mounting holes on bottom for mounting to any flat surface</li> <li>Carrying handles - Optional</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>-45°C to +85°C (-49°F to +185°F)</li> </ul>



\*All measurements are in millimeters



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## ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1-610-000	<ul style="list-style-type: none"><li>MILTECH610, military Rugged, 8 x PoE+ 10/100TX, Switch</li></ul>
2-CBL610PW3M	<ul style="list-style-type: none"><li>Power cable MILTECH610, MIL-D-38999 Connectors, 3 meter length</li></ul>
2-CBL708LN3M	<ul style="list-style-type: none"><li>LAN Cable for MILTECH610, MIL-D-38999 to RJ-45 Connectors, 3 meter length</li></ul>
800-H-0610-000	<ul style="list-style-type: none"><li>Carrying Handles Kit for MILTECH610</li></ul>