



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.

FEATURES

ETHERNET PORTS:	<ul style="list-style-type: none"> 8 x PoE+, 10/100 (Fast Ethernet) ports
NETWORKING:	<ul style="list-style-type: none"> Full wire-speed forwarding rate Store-and-forward mechanism Auto MDI-II, MDI-X Auto-Negotiation Protocol Address Look-Up
CONNECTORS:	<ul style="list-style-type: none"> Power Connector: D38999/24WA98PA LAN Connector: D38999/24WA35SN Indication Per Port (Link/Activity)
CHASSIS:	<ul style="list-style-type: none"> Low profile rugged aluminum Conductively cooled w/custom internal heat-sinks Ingress protection against sand, dust and moisture Anodize Coating, MIL-A-8625, Type II, Class 2
STANDARDS:	<ul style="list-style-type: none"> MILSTD-1275 MILSTD-704A MILSTD-461E MILSTD-810F GM IP67
VOLTAGE OPERATION:	<ul style="list-style-type: none"> 24VDC (18VDC~32VDC)



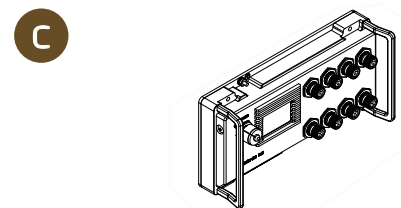
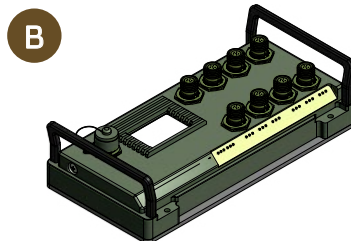
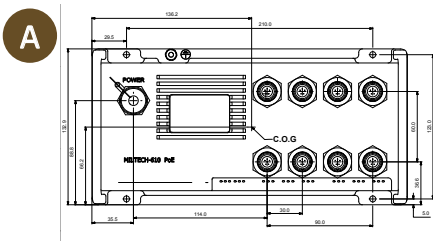


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PRODUCT SPECIFICATIONS

PERFORMANCE:	<ul style="list-style-type: none"> • 128K Byte of SRAM for Frame Buffering • 2.0Gbps High-Performance Memory Bandwidth • 2LED indication (Speed, Link/Activity) per port • Wire-Speed Reception and Transmission • Integrated Address Look-Up Engine • Automatic Address Learning
STANDARDS COMPLIANCE:	<ul style="list-style-type: none"> • IEEE 802.3 10 Mbps 10BASE-T (Ethernet) • IEEE 802.3u 100BASE-TX 100 Mbps (Fast Ethernet) • IEEE 802.3x Flow Control • IEEE 802.3af, IEEE 802.3at
POWER:	<ul style="list-style-type: none"> • MIL-STD-1275B & MIL-STD 704A Surge and Spike protection • Voltage Input: 24Vdc Nominal (18-32V) • Power Consumption: 2.8W Typical • Chassis grounding
PoE:	<ul style="list-style-type: none"> • Total PoE Budget 240W • Maximum Consumption per port 30W • Dynamic Power Allocation • PoE Priority per port • Full Comply to IEEE 802.3af, IEEE 802.3at • No Power Degradation at +85°C • Operates from Regular Military 24Vdc • No need for additional PoE 48Vdc Input • Optional GUI/Web Application for PoE Management
ELECTROMAGNETIC:	<ul style="list-style-type: none"> • MIL-STD-461E Electromagnetic compatibility • CE-102 CS-114 CS-115 CS-116 RE-102 RS-103
SHOCK/VIBRATION/HUMIDITY:	<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. IP67
PHYSICAL:	<ul style="list-style-type: none"> • Dimensions: 269mm (L) x 133mm(W) x 71mm(H), including connectors & hardware • Dimensions: 10.6"(L) x 5.2"(W) x 2.79"(H), including connectors & hardware • Weight: 1.2kg
INSTALLATION:	<ul style="list-style-type: none"> • Set of Four 4x4.5 mounting holes on bottom for mounting to any flat surface • Carrying handles - Optional
COOLING:	<ul style="list-style-type: none"> • No Moving Parts. Passive Cooling
OPERATING TEMP:	<ul style="list-style-type: none"> • -40°C to +85°C (-40°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)



*All measurements are in millimeters



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ORDERING INFORMATION

PART NUMBER	DESCRIPTION
MILTECH610PoE	<ul style="list-style-type: none">MILTECH610, military Rugged, 8 x PoE+ 10/100TX, Switch
MIL600-CBL	<ul style="list-style-type: none">LAN Cable for MILTECH610, MIL-D-38999 to RJ-45 Connectors, 5 feet length
MIL610-HND	<ul style="list-style-type: none">Carrying Handles Kit for MILTECH610 Switch