MILTECH™ 610PoE
Military-grade Fast Ethernet PoE Switch

PRODUCT DESCRIPTION

The 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

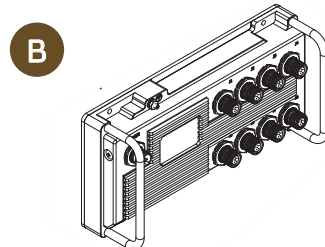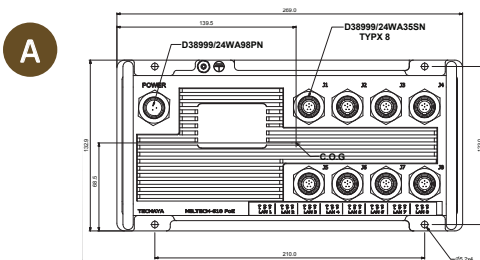|	
ETHERNET PORTS:	• 8 x 10/100TX PoE+ ports
NETWORKING:	• Full wire-speed forwarding rate • Store-and-forward mechanism • Auto MDI-II, MDI-X • Auto-Negotiation Protocol • Address Look-Up
CONNECTORS:	• Power Connector: D38999/24WA98PA • LAN Connector: D38999/24WA35SN • Indication Per Port (Link/Activity, Speed, PoE)
CHASSIS:	• 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:	• MILSTD-1275 | MILSTD-704A | MILSTD-461E • | MILSTD-810F GM | IP67
PERFORMANCE:	• 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

NIST 800-171 Compliant | AS9100D CERTIFIED ISO 9001

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STANDARDS COMPLIANCE:	• 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:	• MIL-STD-1275B & MIL-STD 704A Surge and Spike protection • Voltage Input: 24Vdc Nominal (18-32V) • Power Consumption: 6W Typical • Chassis grounding
PoE:	• 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:	• MIL-STD-461E Electromagnetic compatibility • CE-102 | CS-114 | CS-115 | CS-116 | RE-102 | RS-103
SHOCK/VIBRATION/HUMIDITY:	• 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:	• Dimensions: 269mm (L) x 133mm(W) x 71.7mm(H), including connectors • Dimensions: 10.6"(L) x 5.2"(W) x 2.8"(H), including connectors • Weight: 1.5kg
INSTALLATION:	• Four 4x5.2 mounting holes on bottom for mounting to any flat surface • Carrying handles - Optional
COOLING:	• No Moving Parts. Passive Cooling
OPERATING TEMP:	• -45 C to +85 C (-49 F to +185 F) — Cold Start-Up
STORAGE TEMP:	• -45⁰C to +85⁰C (-49⁰F to +185⁰F)

*All measurements are in millimeters

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ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1-610PoE-001	• MILTECH610, military Rugged, 8 x PoE+ 10/100TX, Switch
2-CBL610PW3M	• Power cable MILTECH610, MIL-D-38999 Connectors, 3 meter length
2-CBL708LN3M	• LAN Cable for MILTECH610, MIL-D-38999 to RJ-45 Connectors, 3 meter length
800-H-0610-000	• CARRYING HANDLES KIT FOR MILTECH610