



MILTECH™ 102

Dual GbE Port PoE/PoE+/PoE++ Injector With 130W Power Budget

The MILTECH 102 is a compact, rugged, standalone Dual Port PoE/PoE+/PoE++ Injector designed to provide Power over Ethernet (PoE) capabilities to standard 100M/1G interfaces. This device is ideal for military applications requiring reliable power and data transmission over a single Ethernet cable. Its robust design ensures it can withstand the harsh conditions often encountered in military environments.

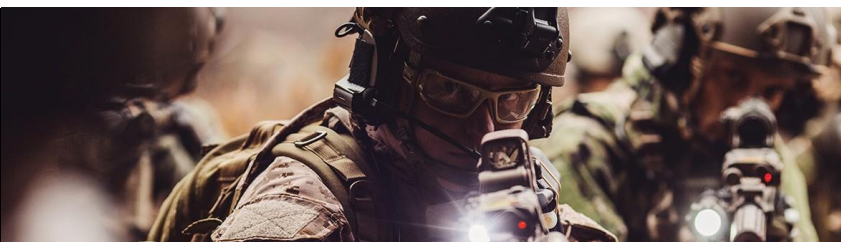
This injector supports two 1G Ethernet ports, offering high-speed data transfer while providing up to 100W of power per port. It can be preconfigured for different PoE standards, ensuring compatibility with a wide range of devices. The MILTECH 102 is cyber protected because it does not have any memory elements, ensuring no data storage vulnerabilities. Additionally, it features full segregation between the two ports, enhancing security and preventing cross-communication. The device also includes NGVA pinout and is compliant with REACH and RoHS standards.

Built with a rugged aluminum chassis, the MILTECH 102 is conductively cooled with no moving parts, making it highly durable and compliant with MIL-STD-810 and MIL-STD-461 standards. It operates effectively in extreme temperatures ranging from -40°C to +85°C, ensuring reliable performance in a wide range of environmental conditions. The device is also dust and moisture-resistant, providing additional protection in challenging environments. Furthermore, the MILTECH 102 is compliant with REACH and RoHS standards, ensuring it meets environmental and safety regulations.

The MILTECH 102 is versatile and can be used in various military and defense scenarios. It is particularly suited for tactical communication systems, enhancing communication reliability and efficiency in the field. It is also ideal for surveillance systems, providing power and data connectivity for surveillance cameras and sensors.

The MILTECH 102 is part of a broader product line that includes various PoE solutions tailored to different needs. For example, the MILTECH 610-PoE offers 8 x 100M Ethernet ports with 15W per port, while the MILTECH 910-PoE provides 8 x 1G Ethernet ports with 60W per port. These products are designed to meet the diverse requirements of modern military operations, ensuring that there is a suitable PoE solution for every scenario.

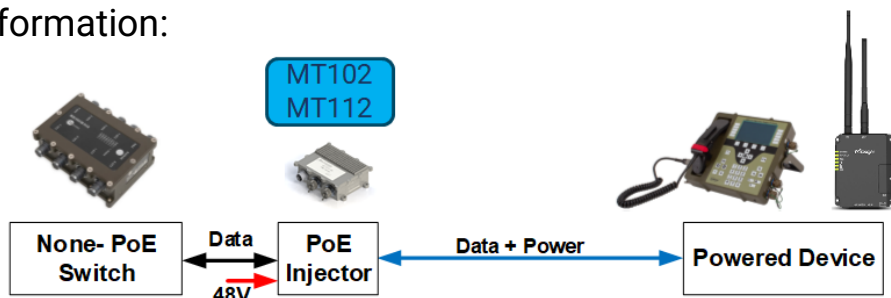


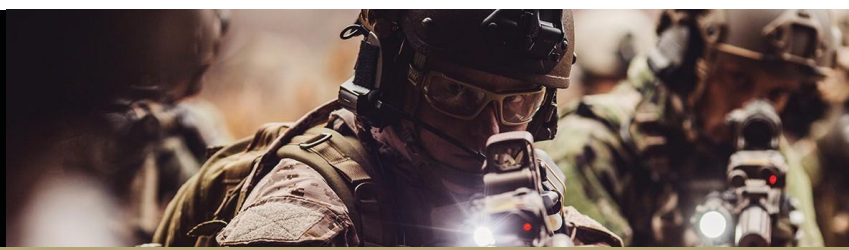


SPECIFICATIONS

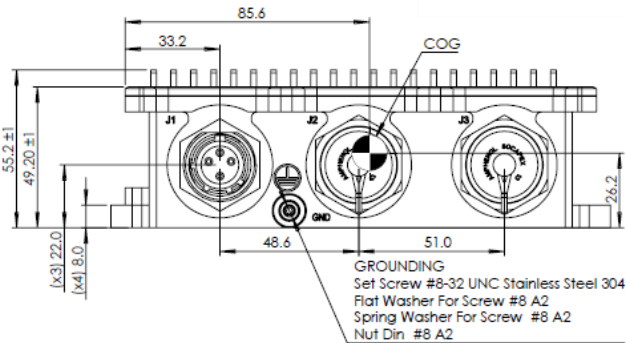
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| PORTS: | <ul style="list-style-type: none"> 2 x 10/100/1000BT ports 2 x 10/100/1000BT ports with injected PoE |
| CONNECTORS: | <ul style="list-style-type: none"> J1 Power: D38999/24ZC98PN J2 Ethernet: D38999/24ZC35SN J3 PoE and Ethernet: D38999/24ZC35SN Chassis ground: #8-32 UNC stainless steel screw Pinout per NGVA standard |
| POWER: | <ul style="list-style-type: none"> Power Input: 28VDC Nominal (16-48V) Under voltage protection Power Consumption: 160W Max Chassis grounding MILSTD-1275, MILSTD-704 |
| NETWORKING Security: | <ul style="list-style-type: none"> No Memory elements Physical segregation between ports |
| STANDARDS: | <ul style="list-style-type: none"> PoE Standards, IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt, PoH RoHS and REACH Compliance NGVA Aligned (Nato Generic Vehicle Architecture) |
| LED INDICATION | <ul style="list-style-type: none"> Status (Built-In Self-Test) Per port indications: PoE Activity/Error |
| ELECTROMAGNETIC: | <ul style="list-style-type: none"> MIL-STD-461F Electromagnetic compatibility CE-101, CE-102, CS-101, CS-114, CS-115, CS-116, RE-101, RS-102, RS101, RS103 |
| ENVIRONMENTAL: | <ul style="list-style-type: none"> IP67 MILSTD-810: Random vibration, Bench Handling, Air Pressure, Blowing Rain, Immersion, High/Low Temp, Humidity, Salt Atmosphere, Blowing Dust, Loose Cargo Vibration |
| CHASSIS: | <ul style="list-style-type: none"> Low profile rugged machined aluminum Conductively cooled Ingress protection against sand, dust and moisture Material: AL6061-T651 per AMS QQ-250/11 Anodize Coating, MIL-A-8625, Type II, Class 2, Black color |
| PHYSICAL: | <ul style="list-style-type: none"> Dimensions: 165mm(L) x 145mm(W) x 55.2mm(H), including connectors Dimensions: 6.5"(L) x 5.71" (W) x 2.17"(H), including connectors Weight: 0.8KG (1.764lbs) |
| COOLING: | <ul style="list-style-type: none"> No Moving Parts. Passive Cooling. |
| TEMPERATURE: | <ul style="list-style-type: none"> Operational: -40°C to +85°C (-40°F to +185°F) Storage: -40°C to +85°C (-40°F to +185°F) |

Application Information:

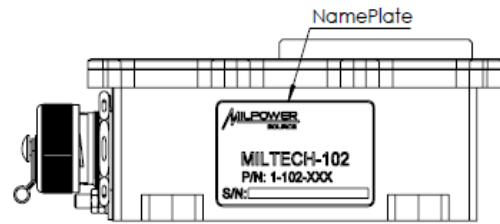




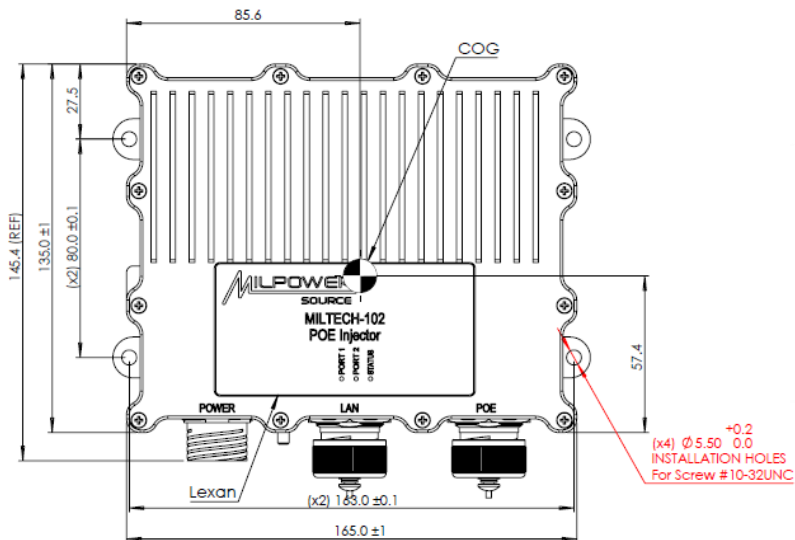
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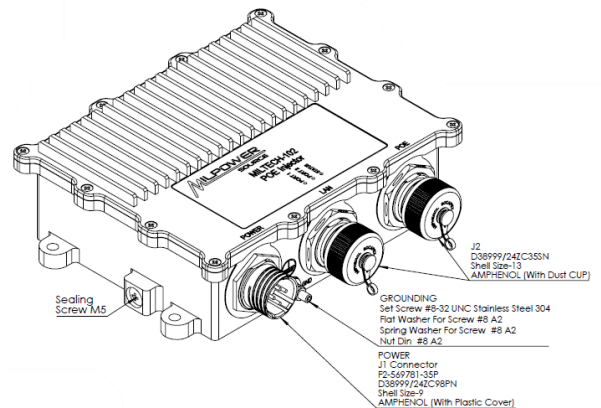
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C



D



ORDERING INFORMATION

| PART NUMBER | DESCRIPTION |
|----------------|---|
| 1-102-000 | Dual GbE Port PoE Injector With 130W Power Budget |
| 2-CBL102PWR | J1 Power harness for MILTECH 102 |
| 2-CBL918TSNLAN | J2/3 LAN harness for MILTECH 102 |