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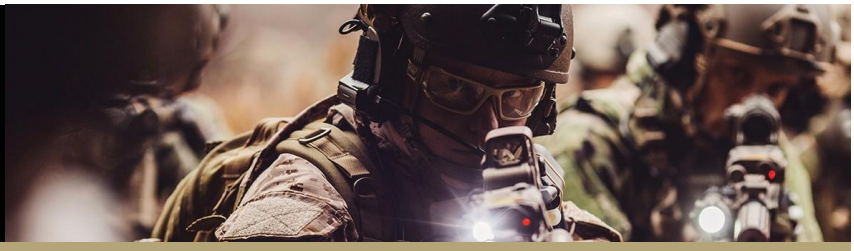

# MILTECH™ 708

## Compact, Portable IP67 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. When building communications where data prioritization is not a concern and the amount of traffic is low, unmanaged, Fast Ethernet switches can be an ideal solution.

The MILTECH708's small size, IP67 rugged construction, and Fast Ethernet make it the ideal switching solution for command post, ground mobile, and airborne applications. Its eight 10/100Mbps ports are plug-n-play compatible with all Ethernet equipment, providing network connectivity for most portable Ethernet devices, including:

- Rugged computers
- Navigation devices
- Voice and video communication systems
- IP-based sensors
- Battlefield communication C4ISR
- Combat vehicles, avionics, shipboard systems

The MILTECH 708 operates on readily available 24VDC power and supports MIL-STD-1275 so that it may be powered directly from any available battery in the field. The MILTECH's mechanical packaging enhancements, including ruggedized D38999 circular connectors, is designed for MIL-STD-810F airborne and ground environmental compliance and high reliability. Leveraging best-in-class switching technology, the MILTECH708 serves as a robust commercial off-the-shelf (COTS) solution for rugged LAN connectivity.


NIST 800-171 Compliant

AS9100D CERTIFIED ISO 9001

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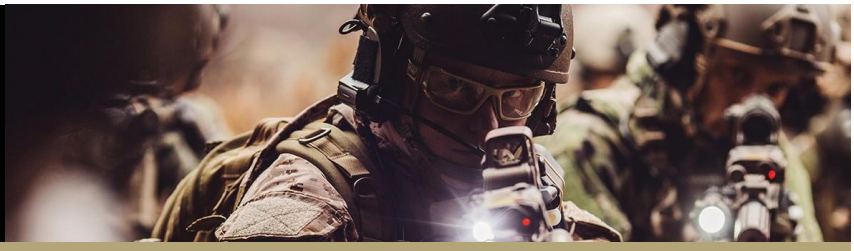

## SPECIFICATIONS

| | |
|---|---|
| ETHERNET PORTS: | • 8 x 10/100BaseT ports |
| NETWORKING: | • Full wire-speed forwarding rate<br>• Store-and-forward mechanism<br>• Auto MDI-II, MDI-X<br>• Auto-Negotiation Protocol<br>• Address Look-Up |
| CONNECTORS: | • Power Connector: D38999/24WA98PA<br>• LAN Connector: D38999/24WA35SN<br>• No led Indication Per Port (Link/Activity)<br>• Power Indication only |
| CHASSIS: | • Low profile rugged aluminum extrusion<br>• Conductively cooled w/custom internal heat-sinks<br>• Ingress protection against sand, dust and moisture |
| STANDARDS: | • Designed to meet MIL-STD-461, MIL-STD-810, MIL-STD-1275, MIL-STD-704, IP67 |
| PERFORMANCE: | • 128K Byte of SRAM for Frame Buffering<br>• 2.0Gbps High-Performance Memory Bandwidth<br>• Wire-Speed Reception and Transmission<br>• Integrated Address Look-Up Engine<br>• Automatic Address Learning |
| STANDARDS COMPLIANCE: | • IEEE 802.3 10 Mbps 10BASE-T (Ethernet)<br>• IEEE 802.3u 100BASE-TX 100 Mbps (Fast Ethernet)<br>• IEEE 802.3x Flow Control |
| POWER: | • MIL-STD-1275B & MIL-STD 704A Surge and Spike protection<br>• Voltage Input: 24Vdc Nominal (18-32V)<br>• Power Consumption: 2.8W Typical<br>• Chassis grounding |
| ELECTROMAGNETIC: | • MIL-STD-461E Electromagnetic compatibility<br>• RE-02, RS-03 |
| SHOCK/VIBRATION/ HUMIDITY: | • MIL-STD-810F \| 501.4I \| 501.4II \| 502.4I \| 502.4II \| 507.4 \| 500.4II \| 514 \| 516I \| 516Vi \| 514.5 \| 512.4<br>• IP67 |
| PHYSICAL: | • Dimensions: 269mm (L) x 133mm(W) x 71.7mm(H), including connectors<br>• Dimensions: 10.6”(L) x 5.2”(W) x 2.8”(H), including connectors Weight: 1.5kg<br>• Weight:1.5kg |
| INSTALLATION: | • Four 4x5.2 mounting holes on the bottom for mounting to any flat surface |
| COOLING: | • No Moving Parts. Passive Cooling |
| OPERATING TEMP: | • -45ºC to +85ºC (-49 F to +185 F) - Cold Start-Up |
| STORAGE TEMP: | • -45ºC to +85ºC (-49ºF to +185ºF) |

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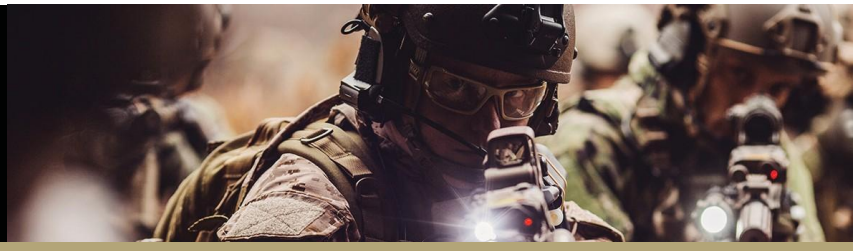

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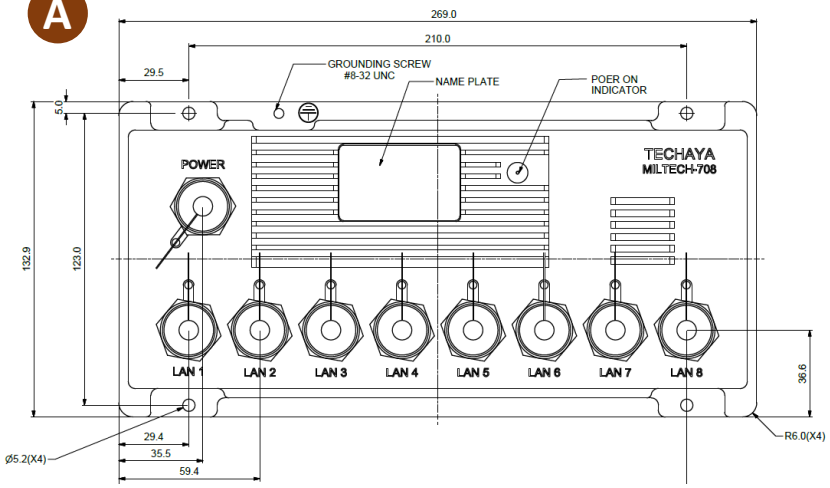


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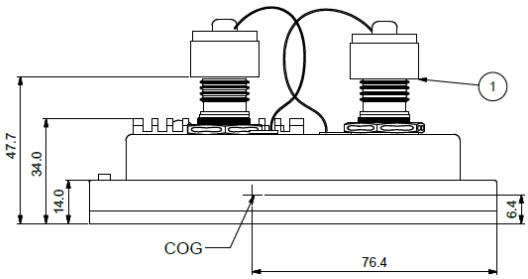


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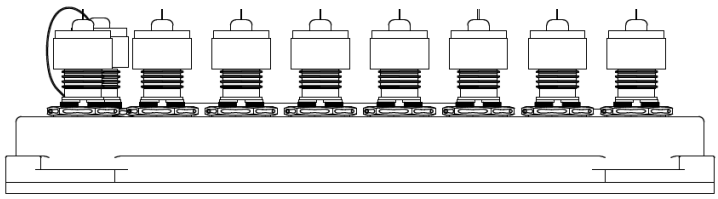

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## ORDERING INFORMATION

| PART NUMBER | DESCRIPTION |
|---|---|
| 1-708-000 | MILTECH708, military Rugged, 8 x 10/100TX, Switch |
| 2-CBL610PW3M | Power cable MILTECH708, MIL-D38999 Connector, 3 meter length |
| 2-CBL708LN3M | LAN cable for MILTECH708, MIL-D38999 to RJ45 connector, 3 Meters length |

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