

D.T.MUX™ NetSwitch



Reference: NETSWITCH

The D.T.MUX NetSwitch is a rugged managed Ethernet switch offering 8 to 24 Gigabit ports (MIL-DTL-38999 connectors) with optional PoE+. It supports IEEE 1588v1/v2 PTP with optional Grandmaster GPS/IRIG-B for precise time synchronization.

Powered by a high-performance Carrier Ethernet engine, it provides Layer 2 managed switching with Layer 3-aware processing, VLANs, QoS, Spanning Tree, SNMP, and full remote management (Web GUI, SSH, Telnet). Its passive cooling, low power consumption, and embedded reliability make it ideal for airborne and mission-critical applications.

Key Features

- 8 to 24 Gigabit Ethernet ports (10/100/1000 Mbps) with rugged MIL-DTL-38999 connectors
- Precision Time Protocol (PTP, IEEE 1588 v2) – Grandmaster (optional) or Transparent Clock mode
- Individual status LEDs for each Ethernet port
- Fully managed Layer 2 switch with Layer 3-aware packet processing
- Comprehensive enterprise-grade features: VLANs, Spanning Tree, QoS, SNMP
- Flexible management options: Web GUI, SSH, Telnet [Managed version]
- Optional PoE+ support (IEEE 802.3at)
- Passive heat sink for silent and reliable cooling
- Low power consumption for energy-efficient operation

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PART NUMBERING GUIDE

NETSWITCH-PTPGM-16-RJ45-0

Function

Unmanaged: 0 (or nothing)
Managed PTP Support: PTP
Managed PTP Grand Master: PTPGM

Input

8 8 ports Gigabit Ethernet
16 16 ports Gigabit Ethernet
24 24 ports Gigabit Ethernet

Ethernet Connector Type

PIN Pin Contact MIL-38999 III
RJ45 RJ45 MIL-38999 III *

Power Over Ethernet

POE 8x PoE+ ports (60W power budget)
0 None

**only available for 8 ports Gigabit Ethernet version*

HARDWARE SPECIFICATIONS

Ports Type:

8 to 24 Gigabit Ethernet ports (10/100/1000 Mbps).

GPS / IIRIG B Input Connectors:

SMA Serial, ref. R.125.680.000 (PTP Grandmaster option).

IIRIG B Output Connector:

SMA Serial, ref. R.125.680.000 (PTP Grandmaster option).

Ethernet Connectors:

MIL-DLT-38999 Series III Pins or RJ45.

Power Connector:

MIL-DLT-38999 Series III (TV P00 ZNCI 09 98 PN).

Time Precision Protocol:

IEEE 1588 v2 – Grandmaster (Managed GM option) or
Transparency mode.

Management Access:

Web Interface HTTP/HTTPS (Managed).

Input Voltage:

Wide input range +16V to +36V DC,
with Reverse Polarity Protection.

Power Consumption:

- ~10 Watts (8 ports)
- ~15 Watts (16 ports)
- ~25 Watts (24 ports)
- Add +8 W for Grandmaster option
- Power Over Ethernet (PoE+):** IEEE 802.3at (PoE+) option, 8 ports with up to 60W total power budget (30W max per port).

Vibration, Shock, Acceleration:
DO-160 / MIL-STD-810 Qualified.

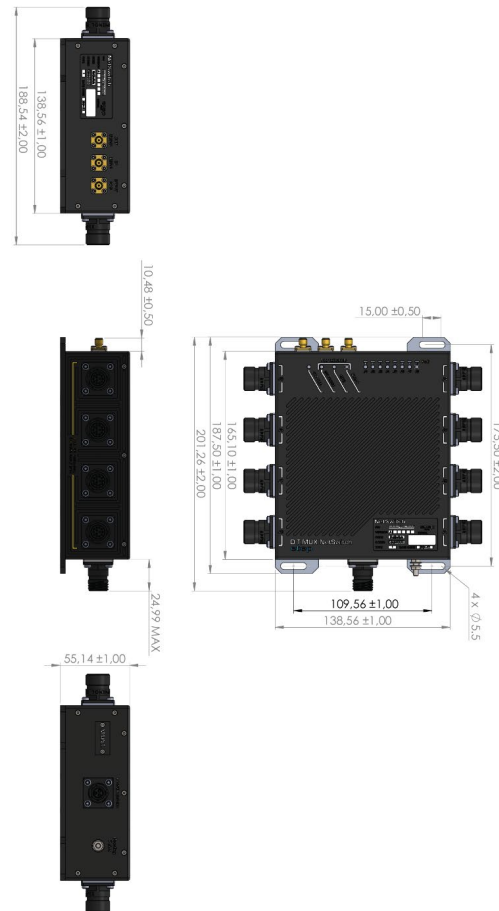
Operating Temperature:
-40°C to +85°C.

Weight (kg [lbs]):

NetSwitch 8ch: 1.2 [2.6] (0/PTP) | 1.5 [3.3] (PTP GM)
NetSwitch 16ch: 1.8 [4.0] (0/PTP) | 2.1 [4.6] (PTP GM)
NetSwitch 24ch: 2.4 [5.3] (0/PTP) | 2.7 [5.9] (PTP GM)

Dimensions (without connectors, in mm):

NetSwitch 8ch: L 187.5 × W 138.6 × H 55.1
NetSwitch 16ch: L 187.5 × W 138.6 × H 71.7
NetSwitch 24ch: L 187.5 × W 138.6 × H 88.3



ADDITIONAL TECHNICAL DETAILS

D.T.MUX NetSwitch is a high-performance Ethernet switch with a 416 MHz CPU, advanced QoS, Layer 2/3 switching, and strong security features. It supports SyncE, IEEE 1588v2, and NTPv4 for precise time synchronization, while offering comprehensive management (HTTP/HTTPS, SNMP, sFlow) with power-saving and thermal protection. For **security**, it supports IEEE 802.1X authentication, RADIUS, TACACS+, ACLs, IP source guard, guest VLANs, and MAC/IP-based access control.

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