



MILTECH™ 24FO

Compact Military Managed Fiber Optic Ethernet Switch

FEATURES

Today’s military personnel face new challenges due to the ever-changing battlefield. New generations of avionics and flight control systems depend on fiber optic networks to deliver real-time data. To improve safety and maximize situational awareness, military forces continue to upgrade communications and monitoring infrastructure. Investing in optical communication systems as a cost-effective network provides essential communications solution, including greater bandwidth for real-time voice, data and video applications.

The MILTECH24FO is a MIL-STD, fully managed military grade network switch offering 24 fiber optic ports of 1Gb. It can be remotely managed to optimize communications and prioritize critical information traffic. Advanced network features, never before found in a package of this size, include switching protocols, virtual LANS (VLANS),

traffic prioritization (QoS), and bandwidth aggregation are standard.

The MILTECH 24FO’s gigabit speeds and 28VDC power make it instantly compatible with any network device and power systems. Its mechanical packaging enhancements, including ruggedized Amphenol SIM 2D 44VG connectors, is designed for MIL-STD-810F airborne and ground environmental compliance and high reliability.

There are numerous data-intensive applications where the advantages of fiber optic pay dividends, including radar installations, EO sensor suites, persistent wide area surveillance, signals intelligence, and more. Leveraging best-in-class switching technology, the MILTECH 24FO is an ideal solution for these applications.

SPECIFICATIONS

ETHERNET PORTS	<ul style="list-style-type: none"> Managed 24 x 1Gb Fiber-Optic ports
NETWORKING	<ul style="list-style-type: none"> Spanning Tree (802.1d), RSTP (802.1w) and multiple Spanning Tree (802.15) for fast recovery rings Security via Radius Authentication 802.1x, Port Security, Port Mirroring Multicasting (IGMP Snooping), GARP, GMRP, and GVRP Broadcasting and flooding Control up to 8K Groups. 802.1q Tagged based VLAN up to 4K VLAN groups. QoS Multi-Layer Classifier, 802.1p, ToS/DSCP traffic classification. WFQ, Strict Queuing. Bridge support for Q-in-Q. L3 static routing Link Aggregation 802.3AD. WEB, CLI, Telnet Management.
CONNECTORS	<ul style="list-style-type: none"> Power Connector Type: TV07RW9-9PNF312 LAN Connector Type: 4 SIM 2D 44 VG Service Connector Type: TV07RW9-9SF312 (Incl' RS232) LED Indication Per Port (Link/Activity)





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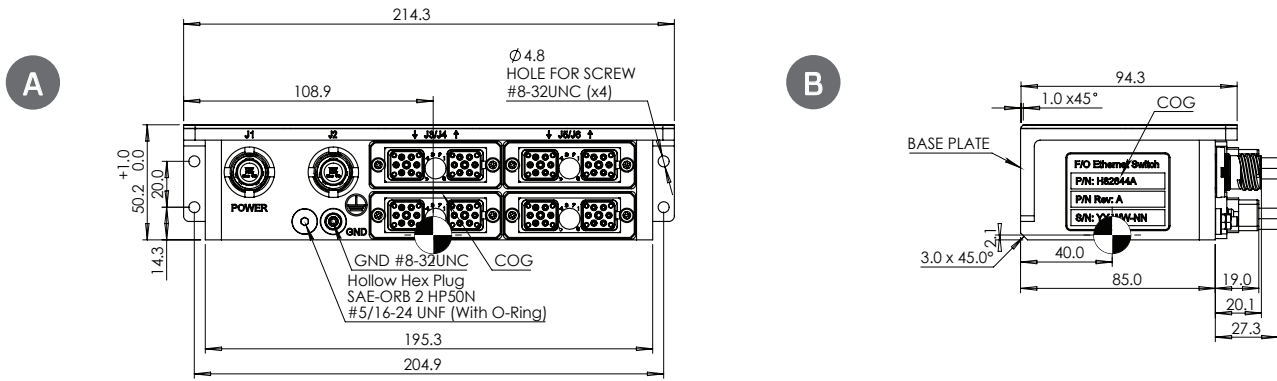
SPECIFICATIONS

CHASSIS	<ul style="list-style-type: none"> Machined 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"> MIL-STD-461E, MIL-STD-810F/G, MIL-STD-1275, MIL-STD-704 IP67
PERFORMANCE	<ul style="list-style-type: none"> 253.4 Mpps wire speed forwarding rate 128 Gbps maximum forwarding bandwidth 8K MAC Address
STANDARDS COMPLIANCE	<ul style="list-style-type: none"> IEEE 802.1x MAC based Authentication IEEE 802.1Q Vlan Tagging IEEE 802.1P QoS IEEE 802.1S Multiple STP IEEE 802.1W Rapid STP IEEE 802.1AD Link Aggregation IEEE 802.1X
POWER	<ul style="list-style-type: none"> Voltage Input: 28Vdc Nominal (18-40V) Power Consumption: 20W Max Chassis grounding
ELECTROMAGNETIC	<ul style="list-style-type: none"> MIL-STD-461E Electromagnetic compatibility CE-102, CS-114, CS-115, CS-116, RE-102, RS-103
ENVIRONMENTAL	<ul style="list-style-type: none"> MILSTD-810F/G 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: 214.3mm (L) x 94.3mm(W) x 50.2mm(H), including connectors Weight: 1.1Kg
INSTALLATION	<ul style="list-style-type: none"> 4 X 4.8mm diameter holes for Screw 8-32 for mounting to any flat surface.
COOLING	<ul style="list-style-type: none"> No Moving Parts. Passive Cooling.
OPERATING TEMP	<ul style="list-style-type: none"> -45°C to +85°C (-49°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)



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ORDERING INFORMATION	
PART NUMBER	DESCRIPTION
1-24FO-000	Managed Military Gigabit Fiber Optic Switch 24 x 10/100/1000TX
2- CBL24FOPWR	Power cable for MILTECH 24FO
2-CBL24FOAUX	AUX cable for MILTECH 24FO