MILTECH™ 9030

Military Managed 24 X 1G Copper Ports + 1G F/O Port + 5 X 10G Copper Ports

Driven by rapid advancement and lower costs, Ethernet is becoming the standard for IP-based components in a wide range of military and commercial applications, including:

- Armored ground vehicles
- Land autonomous vehicles (UGVs)
- Robots
- Mobile equipment fielded in harsh environments

Modern platforms contain dozens of network devices that must be interconnected. The MILTECH 9030 is an ideal solution for mobile Ethernet-equipped platforms. With the best combination of size, weight, and power in the industry, it saves valuable real estate for computers, sensors, targeting systems, and other devices that make mobile platforms highly effective.

The MILTECH 9030 is a fully managed military-grade network switch offering 24 X 1G copper ports + 1G F/O port + 5 X 10G copper ports.

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 9030-'s 10-gigabit speeds and 24VDC power make it instantly compatible with network devices and power systems.

The MILTECH 9030 is widely used in battlefield communications C4ISR, video, sensor data acquisition, and transmission. Its mechanical packaging enhancements, including ruggedized D38999 connectors, is designed for MIL-STD-810F airborne and ground environmental compliance and high reliability. Leveraging best-in-class switching technology from Enercon, MILTECH 9030 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:	• Managed 24 X 1G Copper Ports + 1G F/O Port + 5 X 10G Copper Ports
NETWORKING:	• Wire-speed hardware-based 32 x 10 Gigabit Ethernet switch – L2, L3, L4 Capabilities • L3-Routing capabilities:static,RIPV1,V2,OSPF V2/V3 Multicast Routing, VRRP,ECMP Routing • Multicasting (IGMP Snooping), GARP, GMRP, MLD and GVRP up to 8K groups for both IPv4 and IPv6 • Broadcasting and flooding Control up to 8K Groups • 802.1q Tagged based VLAN up to 4K VLAN groups • Bridge Support for VLAN Q-in-Q , manual tunneling • Link Aggregation 802.3ad, up to 16 members in group • Link Aggregation mechanism based on L2/ L3/ L4 parameters • Jumbo Frame support up to 10K • WEB, CLI, Telnet , SNMP V2/V3 management
NETWORKING: QUALITY OF SERVICE	• QoS Multi-Layer Classifier: 802.1p, EtherType, VLAN-ID, IPv4/6 DSCP/ToS, and UDP/TCP ports & ranges traffic classification • Per port WFQ and Strict Queuing scheduling • DSCP remarking for both IPv4 and IPv6 frames • Ingress policer and ingress shaper per port with 500Kbps granularity • Egress shaper per port with 500Kbps granularity • Full-duplex flow control (IEEE802.3X) and half-duplex backpressure, symmetric and asymmetric
NETWORKING: SECURITY	• Security via Radius Authentication 802.1x, Port / MAC access control • Port Security • Per port ingress and egress port mirroring including 10G mirroring • Mirroring per VLAN and per content awareness match • Private VLAN support per VLAN (Isolated and Promiscuous ports) • Content Aware Policers: • 128 Content Aware Policers • 16 Content Aware rate policers with rates from 1fps to 32 million fps • 8 UDP/TCP port range policers • Advanced ACL through hardware-based match patterns • Content Aware Policers for generic MAC, ARP, IPv4, IPv6 protocols • No restriction on any mix of entries to Content Aware Policers • Content Aware Policers actions are permit/deny, police, count, snoop and mirror • Special support for IP fragments, UDP/TCP port ranges • Extensive CPU DoS prevention • Surveillance functions by Content Aware Policers counters • Multiple ACLs per port for optimal usage of Content Aware Policers • Storm controllers for flooded broadcast, multicast and unicast
NETWORKING: REDUNDANCY & RING PROTECTION	• Spanning Tree (802.1d), RSTP (802.1w) and multiple Spanning Tree (802.1S) for fast recovery rings • QoS consistency across stack / ring • Mirroring across stack / ring • Link aggregation groups spanning multiple switches in stack / ring
PERFORMANCE:	• 240 Mpps wire speed forwarding rate • 320G maximum forwarding bandwidth • 32K MAC Address

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CONNECTORS:	• Power connector: Black Zinc, D38999/24ZC4PN • LAN connectors: Black Zinc, 10-646406-016N, 10-646406-017A, 10-646406-017N, F2-569788-35H, F2-569788-35S • Optical Connector: Black Zinc, 8D7E11Z02AE • RS232 connector – Black Zinc, F2-569782-35S • Led indication: link / activity per port
POWER:	• MIL-STD-1275E/B Surge and Spike protection • Voltage Input: 24Vdc Nominal (18-32V) • Power Consumption: 87W Maximum • Chassis grounding
CHASSIS:	• Machined rugged aluminum • Conductively cooled w/custom internal heat-sinks • Ingress protection against sand, dust and moisture • Painted Nato Green MIL-C-83286 TYPE-2 - FED 24079
STANDARDS:	• MIL-STD-1275E/B | MIL-STD-704A | MIL-STD-461E | MIL-STD-810F/G | IP67
ENVIRONMENTAL:	• 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
PHYSICAL:	• Dimensions: 433mm(L) x 197mm(W) x 96.2mm(H), not including connectors. • Dimensions: 17.05”(L) x 7.75”(W) x 3.78”(H), not including connectors. • Weight: 5kg
INSTALLATION:	• 4 x 8.5mm mounting holes
COOLING:	• No Moving Parts. Passive Cooling.
OPERATING TEMP:	• -40°C to +75°C (COLD PLATE) • -40°F to +167°F Cold Start-Up
STORAGE TEMP:	• -40°C to +85°C • -40°F to 185°F

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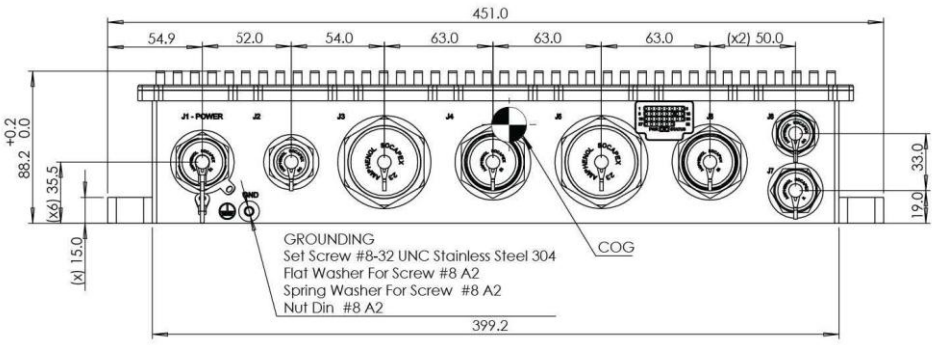
A



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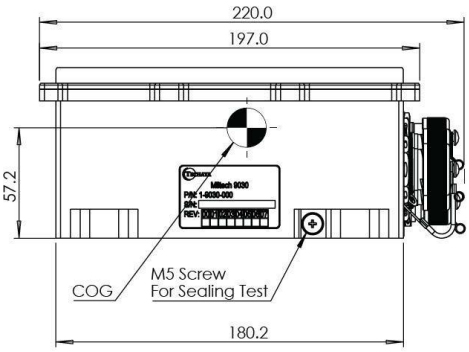

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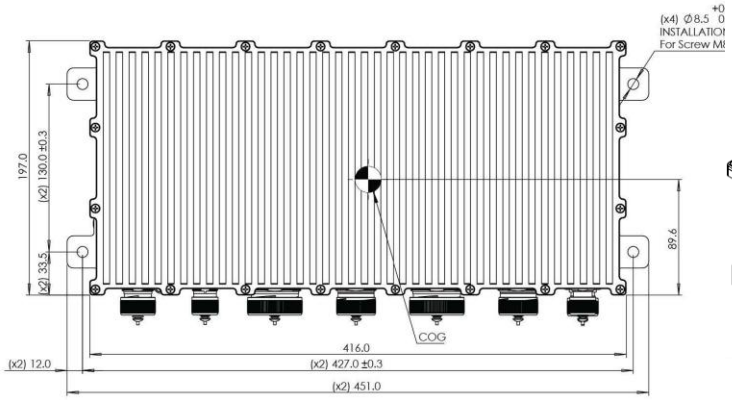

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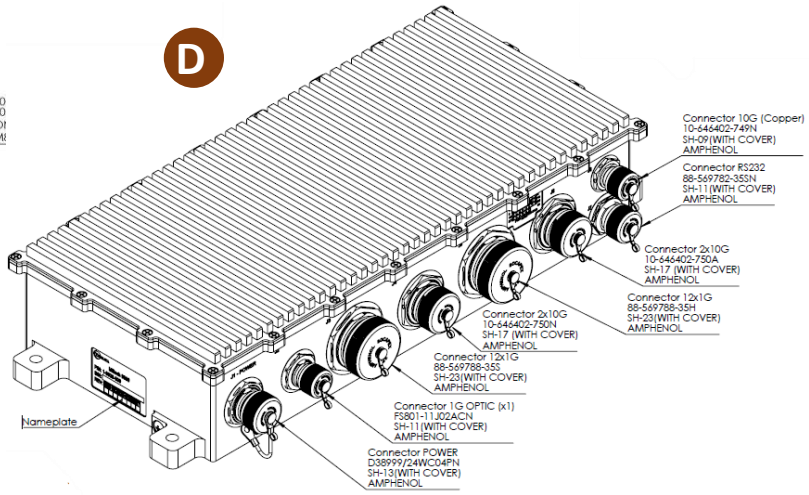

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1-9030-000	Managed Military Grade Gigabit switch/router, 24 X 1G Copper Ports + 1G F/O Port + 5 X 10G Copper Ports

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