ENERCON TECHNOLOGIES LTD | Techaya Networking Products

MILTECH™ 910PoE
A Managed Military Gigabit PoE Switch

PRODUCT DESCRIPTION

The MILTECH™ 910PoE is a military-grade Power over Ethernet (PoE+) switch that supports 60W of PoE on all 8 gigibit Ethernet 10/100/1000 ports - giving a total POE power budget of 330 watts to power both 802.3af and 802.3at standard devices.

MILTECH™ 910PoE is ideal for mobile Ethernet-equipped platforms, such as vectronic, ground vehicles and aerial applications where traditional power sources have limited availability and supports COTS guidelines for PoE-enabled cameras, WiFi access points, mesh nodes and other devices.

Leveraging best-in-class switching technology, the MILTECH™ 910PoE is fully managed with advanced network features such as switching protocols, virtual LANS (VLANS), traffic prioritization, and bandwidth aggregation.

Developed for military and harsh environment applications, the MILTECH™ 910PoE features mechanical packaging enhancements designed for MIL-STD-810F airborne and ground environmental compliance and high reliability. The unit has been especially hardened to improve ingress, impact, and shock/vibration protection, as well as eliminate all moving parts through passive cooling, and interface through sealed MIL-D-38999 circular connectors.

SPECIFICATIONS

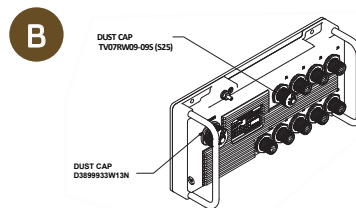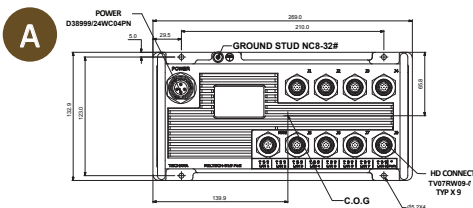|	
ETHERNET PORTS:	• 8 x PoE + 10/100 /1000 ports
NETWORKING:	• Spanning Tree (802.1d), RSTP (802.1w) and multiple Spanning Tree (802.1S) for fast recovery rings • Security via Radius Authentication 802.1x, Port Security, Port Mirroring • Layer 3 Static routing • Multicasting (IGMP Snooping), GARP, GMRP, 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. • Link Aggregation 802.3AD. • WEB, CLI, Telnet Management • Rmirror* • Port Protection: 1+1 port protection, 1:1 port protection, 1:N port protection* • G.8032 ring protection* • DHCP option 82 relay* • L2CP tunneling* • Protocol-based VLAN* • 1588v2 PTP with two-step clock* * Available in 1-910POE-100
CONNECTORS:	• Power Connector Type: D38999/24WC04PN • LAN Connector Type: TV07RW9-9SS25 • Management RS-232 Type: TV07RW9-9SS25 • LED Indication Per Port (Link/Activity, Speed, PoE)
CHASSIS:	• 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:	• MIL-STD-461E, MIL-STD-810F GM, IP68, MILSTD-1275, MILSTD-704

NON ITAR

AS9100D CERTIFIED ISO 9001

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PERFORMANCE:	• 26.8 Mpps wire speed forwarding rate • 20 Gbps maximum forwarding bandwidth • 8K MAC Address
STANDARDS COMPLIANCE:	• 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 PoE:	• Total PoE budget 330W • Max Consumption per port: 60W • Dynamic power allocation • PoE priority per port • Full comply to IEEE 802.af, IEEE 802.at • No Power degradation at +85C • Operates with 24VDC (18-32VDC) • No Need for additional PoE 48VDC input • Optional Gui /Web application for PoE management • MILSTD-1275 , MILSTD-704
ELECTROMAGNETIC:	• MIL-STD-461E Electromagnetic compatibility • CE-102, CS-114, CS-115, CS-116, RE-102, RS-103
ENVIRONMENTAL	• MILSTD-810F/G/GM: • 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. • IP68
PHYSICAL:	• Dimensions: 269mm (L) x 133(W) x 71(H), including connectors & hardware • Dimensions: 10.5" (L) x 5.2"(W) x 2.79"(H), including connectors & hardware • Weight: 1.2kg
INSTALLATION:	• Set of four 4-4.5 threads for mounting to any flat surface. • Carrying handles - optional
COOLING:	• No Moving Parts. Passive Cooling
OPERATING TEMP:	• -45⁰C to +85⁰C (-49⁰F to +185⁰F) Cold Start-Up
STORAGE TEMP:	• -45⁰C to +85⁰C (-49⁰F to +185⁰F)

*All measurements are in millimeters

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ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1-910PoE-000	• Military Managed PoE+ Gigabit Ethernet Switch, 8 x10/100/1000TX
1-910PoE-100	• Enhanced Military Managed PoE+ Gigabit Ethernet Switch, 8 x10/100/1000TX
2-CBL910PoEPW	• Power Harness for MILTECH910PoE
2-CBL910PoELN	• LAN Harness for MILTECH910PoE
2-CBL910PoEMNG	• LAN and management Harness for MILTECH910PoE

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