AS9100D CERTIFIED ISO 9001 | NIST 800-171 Compliant

MILTECH™ 324G3UVPX - SOSA™ ALIGNED

Military Grade 6 Ports of 40 Gigabit and 7 Ports of 10 Gigabit Ethernet Switch L2/L3 3U VPX Form Factor

One of the most exciting advancements in technology over the last decade has been The MILTECH 324G3UVPX that supports advanced secure boot via dedicated FPGA, BIT functionality, zeroization and data declassification. Monitoring and management via IPMI SOSA™ aligned interface. Comply with MIL-STD-461E, MIL-STD-810F/G, when installed in an appropriate chassis.

The MILTECH 324G3UVPX is a 3U VPX Ethernet Switch.

In order to support sophisticated intelligence, these platforms may have to carry and connect a variety of high-speed Ethernet-based devices including computers, sensors, and targeting systems - all in compact platforms that must communicate with each other. Advanced network features, including routing protocols, virtual LANS (VLANS), traffic prioritization (QoS), and bandwidth aggregation and more.

The MILTECH324G3UVPX is instantly compatible with any VPX SOSA™ ALIGNED platform.

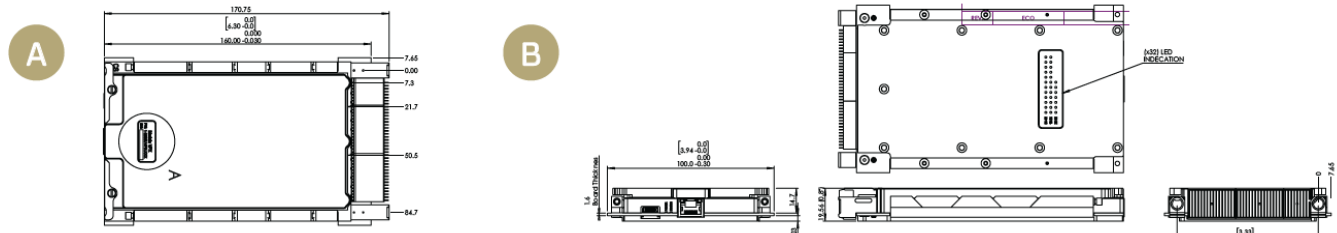| SPECIFICATIONS	
ETHERNET PORTS	• Slot Profiles (per SOSA™): 1. SLT3-SWH-6F1U7U-14.4.14 • Out-of-band management via backplane and front-panel USB type-C • Out-of-band management via 1G RJ45 front-panel
NETWORKING	• Quick boot time with enhanced Built-in-Test (CBIT) • Secure Boot via FPGA. • IPMI SOSA™ Aligned • 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 • Built-in-Zeroization for data declassification. • 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. • Full L3: VRRP, OSPF V3, PIM, RIP V1/V2, ECMP • Link Aggregation 802.3AD. • WEB, CLI, Telnet Management.

Milpower Source, Inc. • Belmont, NH, **USA** • P: (603) 267-8865
Email: sales@milpower.com • Website: www.milpower.com • CAGE: 0B7R6

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STANDARDS	MIL-STD-461E, MIL-STD-810F/G, when installed in an appropriate chassis
PERFORMANCE	• 922.4 Mpps wire speed forwarding rate • 324 Gbps maximum forwarding bandwidth • 32K MAC Address
STANDARDS COMPLIANCE	• Fully VITA 65 SOSA™ Aligned • 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	• Voltage Input: 12VDC (Backplane) + 3.3VDC secondary supply per SOSA™ guidelines. • Power Consumption: Typical 29W, Maximum 35W • Led indication: power and status
ELECTROMAGNETIC	• MIL-STD-461E Electromagnetic compatibility • CE-102, CS-114, CS-115, CS-116, RE-102, RS-103 (when installed in an appropriate chassis)
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 (when installed in an appropriate chassis)
PHYSICAL	• 3U VPX Form Factor, 0.8''or 0.85'' pitch • Weight: 520g • Two level maintenance (2LM) covers
COOLING	No Moving Parts. Passive Cooling
OPERATING TEMP	-45ºC to +85ºC (-49ºF to +185ºF) Cold Start-Up
STORAGE TEMP	-45ºC to +85ºC (-49ºF to +185ºF)

OUTLINE DRAWING:

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Standard Models List (for other options – consult factory)

Part Number	Description	Slot profile
1-324G3UVPX-000	6 X 40G + 7 X 10G + DP/CP GND isolation – RS232 management	SLT3-SWH-6F1U7U-14.4.14
1-324G3UVPX-001	6 X 40G + 7 X 10G + DP/CP GND isolation – LVCMOS management	SLT3-SWH-6F1U7U-14.4.14

- Additional standard configurations available. **Contact factory for more details.**
- All of our products can be configured to comply with EU REACH, ROHS regulations. **Contact factory for more details.**

Note: Specifications are subject to change without prior notice by the manufacturer.

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