

Networking Products



Military Grade 30 Ports 25G/100G Ethernet Data Plane + 15 Ports 10G Ethernet Control Plane Switch L2/L3 6U VPX Form Factor

One of the most exciting advancements in technology over the last decade has been The MILTECH 2T6UVPX 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 2T6UVPX is a 6U 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 each communicate with other. Advanced network features, including routing protocols, virtual LANS (VLANS), traffic prioritization (QoS), and bandwidth aggregation and more.

The MILTECH 2T6UVPX is instantly compatible with any VPX SOSA[™] ALIGNED platform.

SPECIFICATIONS		
ETHERNET PORTS	 Slot Profiles (per SOSA[™]): 1. SLT6-SWH-14F16U1U1U15U1J-10.8.1-n 2. Front Panel: 1X100GKR4 F/O (MM) Data Plane , MPO connector 1X10GKR F/O (MM) Control Plane, LC connector 1X10G Copper Control plane, HARTING P/N 09451812560 1XUSB type C for CLI to both data and control plane 	
NETWORKING	 Quick boot time with enhanced Built-in-Test (PBIT, IBIT, CBIT) Secure Boot via FPGA. IPMI SOSA[™] Aligned per VITA 46.11 tier II, LVCMOS via backplane 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 	

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





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	Link Aggregation 802.3AD.
	• WEB, CLI, Telnet Management.
STANDARDS	MIL-STD-461E, MIL-STD-810F/G, when installed in an appropriate chassis
PERFORMANCE	Data Plane Switch:
PERFORMANCE	
	Non-blocking, wire speed forwarding rate
	• 14X100G-KR4
	• 16X25G-KR4
	Optional 100G-KR4 to front panel F/O, MM, MPO
	Optional 100G-KR4 to BP via VITA 66.5, F/O, MM
	Control Plane Switch:
	• 15X10GKR
	1X10G Copper front panel
	1X10G F/O front panel
	Non-blocking, wire speed forwarding rate
STANDARDS COMPLIANCE	Fully VITA 65 SOSA™ Aligned
COMPLIANCE	VITA 66.5 Aligned – 100G fiber module on backplane J6B
	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
DOWED	• IEEE 802.1X
POWER	• Voltage Input: 12VDC (Backplane) + 3.3VDC secondary supply per SOSA™ guidelines
	Power Consumption: Typical 160W
	Led indications: 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	• MIL-STD-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	• 6U VPX Form Factor, 1" pitch. Weight: 750g
	Two level maintenance (2LM) covers
COOLING	No Moving Parts. Passive Cooling.
OPERATING TEMP	-40°C to +85°C (-40°F to +185°F) Cold Start-Up
STORAGE TEMP	-40°C to +85°C (-40°F to +185°F)

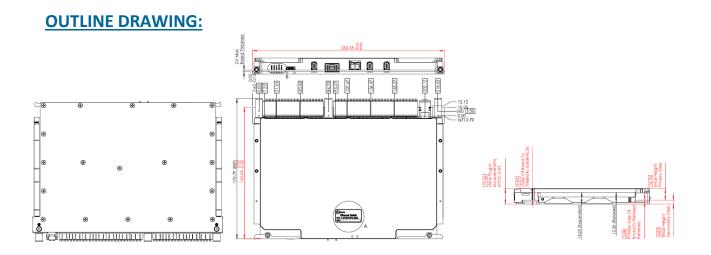
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AS9100D CERTIFIED ISO 9001



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Standard Models List (for other options - consult factory)

Part Number	Description
1-2T6UVPX -001	6U VPX Managed Military Grade Gigabit Ethernet Switch, 30 Ports 25G/100G Ethernet Data Plane + 15 Ports 10G Ethernet Conduction Cooled

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

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

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