



The Graphite VPX 10G Switch is a SOSA-aligned 3U VPX PCIe and 10 Gb Ethernet switch, built for the demands of modern aerospace and defense systems. Featuring high-performance PCIe and Ethernet switching, it delivers fast, reliable data flow across compute-intensive platforms.

Designed in alignment with the SOSA Technical Standard, the Graphite VPX 10G Switch ensures open, interoperable system design while reducing integration complexity and lifecycle cost.



Benefit from: high-throughput performance, interoperable design, dependable operation, and streamlined architectures.

FEATURES

- ✓ 3U VPX SOSA aligned
- ✓ 7x 10G KR Ethernet
- ✓ 2x 10G SFP+ Ports
- ✓ TSN/IEEE 1588 PTP synchronization support
- ✓ 6x PCIe Gen 4 Ports (x4 each)
- ✓ IPMC Tier 1-3 Support

SPECIFICATIONS

Switch	GBE Switch – Microchip SparX-5 Family VSC7558TSN PCI Switch – Microchip Switchtec PM43028B1	VPX Compatibility	<ul style="list-style-type: none"> • SOSA Aligned 3U VPX Switch • ANSI/VITA 48, 65 (VPX REDI, OpenVPX) • 1.0" pitch conduction cooled • 14.4.14 Slot Profile
System Management	VITA 46.11-2022 Tier-3	Data Plane	6FP Fanning out PCIe (x4 each FP)
Control Plane	7UTP Fanning out 7x 10GBase-KR Ethernet	Front Ports	2x 10G SFP+ ports
Maintenance Ports	<ul style="list-style-type: none"> • 2x Maintenance UARTs • PCIe REF CLK input • AUX CLK input 	Mechanical Details	Conduction cooled Compliant to ANSI/VITA 48.2
Input Power/ Misc Power Details	SOSA aligned power rail usage: <ul style="list-style-type: none"> • +12V (VS1) • +3.3VAUX 	Warranty and Support	1 Year Warranty and Free Technical Support



BLOCK DIAGRAM

