

The Graphite VPX is a 3U VPX single board computer designed with the NVIDIA® Jetson AGX Orin™ Industrial. Aligned to the Sensor Open Systems Architecture (SOSA) standard, it ensures seamless interoperability with SOSA-aligned systems.



Meeting MIL-STD-810H and DO-160 for shock and vibration, it is an ideal choice for today's mission-critical aerospace and defense AI applications.



Equipped with complete IPMI support, the Graphite VPX enables efficient remote management and monitoring capabilities.

FEATURES

- ✓ 3U VPX SOSA aligned
- ✓ 2x 10GBASE-KR Ethernet
- ✓ Industrial NVMe 1TB/2TB
- ✓ PCIe x8 Gen4 (Endpoint or Host)
- ✓ Complete IPMI Support
- ✓ USB 3.2, DisplayPort, 1GBASE-T, GPIO, UART, Debug, OTG Flashing via front panel

SPECIFICATIONS

NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson AGX Orin™ Industrial	Interface	14.2.16 IO Intensive Slot Profile 3U 1.0" Pitch Conduction Cooled
IPMC	Tier 1, 2 and 3 support	Data Plane Expansion Plane	Root Port and End Point Support 1x PCIe Gen4 x8 with support for bifurcation
Networking	2x 10GBase-KR (P1, Control Plane) 1x 1Gbase-T (P2, Control Plane)	Display Output	1x DisplayPort (P2)
USB	1x USB 2.0 (P2) 1x USB 3.2 Gen2x1 (P2) 1x USB 3.2 Gen2x1 OTG (Type-C, Front Panel)	Storage	2TB Industrial NVMe (other storage options available)
UART/Serial	1 x 3.3V Debug UART (P1, Maintenance port) 2x RS232 (P2, User UART)	Misc/IO	4x GPIO
Input Power	+12V, +3V3AUX	Operating Temperature	-40°C to +85°C (-40°F to +185°F)
Environmental Compliances	MIL-STD-810 RTCA DO-160	Warranty and Support	1 Year Warranty and Free Technical Support



BLOCK DIAGRAM

