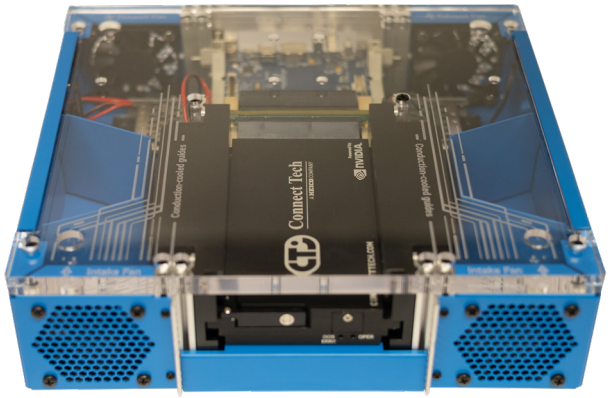
VPX DEVELOPMENT SYSTEM

POWERED BY NVIDIA® JETSON AGX ORIN™ INDUSTRIAL

PART NUMBER: VDC001-01

The VPX Development System enables development on Connect Tech's field-deployable VPX line of 3U SOSA-aligned modules. Fully stackable, the system is designed to enable single or interconnected modules for scalable system development. Active cooling is provided by four variable-speed and remote-controlled fans.

By allowing for development on the rugged Graphite VPX, powered by the NVIDIA Jetson AGX Orin, the system accelerates time to market, single source development and ease of access to the same hardware certified for the field.



Compact and lightweight, it is designed to help teams get cards up and running quickly, without the complexity of backplane design or custom interconnects.

FEATURES

- ✓ SOSA-aligned 3U / 1-slot VPX chassis
- ✓ Rear Transition Module (RTM) with full I/O access
- ✓ Four-fan active cooling with variable speed control via wireless remote
- ✓ Compact and rugged design
- ✓ Flexible deployment as a standalone or stackable system
- ✓ Single-slot backplane with RT3 connectors supporting 12V & 3V3_AUX

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 *Not accessible via RTM*
Networking	1x 10GBase-KR (SAMTEC ARC) 1x 1Gbase-T (IX)	**Display Output**	1x DisplayPort
USB	1x USB 2.0 (Type A) 1x USB 3.0 (Type A) 1x USB 3.2 Gen2x1 OTG (Type-C, Front Panel)	**Storage**	2TB (Other storage options available)
UART/Serial	1x USB console port (micro USB) 2x RS232 (Pin Header)	**Misc/IO**	4x GPIO
Input Power	+12V, +3V3AUX	**Operating Temperature**	0°C to +70°C (+32°F to +158°F)
Chassis Specifications	Powder-coated steel chassis with aluminum conduction-cooled card guides and acrylic top panel Dimensions: 309.78 x 298.2 x 86.43 mm (12.2" x 11.74" x 3.4"); Weight: 5kg (11 lbs)	**Warranty and Support**	1 Year Warranty and Free Technical Support

NOTE: VPG004 Interfaces are not all brought out on the system. For full specs please see the VPG004 SPEC SHEET

RoHS

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