VNX+ System

VITA 90 Rugged Small Form Factor

GET Engineering VNX+ EDGE

Description

VNX+ is a new industry-standard, **small-form-factor rugged computing architecture**, effectively a **compact, modular derivative of VPX**. Defined by **VITA 90**, aligned with **ANSI** standards and **SOSA™** principles, VNX+ enables **stand-alone, modular computing systems** optimized for demanding defense applications.

VNX+ systems are designed for operation in **harsh and space-constrained environments** including **unmanned vehicles, ground vehicles, shipboard platforms, and other rugged deployments**, where **size, weight, power, and cost (SWaP-C)** are critical constraints. The architecture supports scalable compute, I/O, networking, and acceleration modules while maintaining ruggedization, interoperability, and lifecycle longevity.

For over 43 years, GET Engineering provides reliable military electronics and is Designed, Assembled and Tested in the US

Applications

- **Mission Computers**
- **Sono Bouy**
- **IMU**
- **SDR**
- **Position, Navigation and Timing (PNT)**
- **Video Processing**
- **Low Power Artificial Intelligence**
- **Protocol Conversions**
- **Ethernet over Cable**



Key Features

- **SBC Modules**
- **IMU Module**
- **GPU Module**
- **PNT Module**
- **FPGA Module**
- **SSD Module**
- **I/O Modules**
  - A/D, D/A, GPIO, DI, DO, Temperature,
  - MiniPCIe (Mil Std 1553, CAN, etc.)
- **Ethernet Switch Module**
- **Protocols Modules**
  - Ethernet, Mil Std 1553, NTDS, Serial, CAN
  - Protocol Converters
  - Virtual High Speed Protocols
- **Ethernet over Cable Module (MoCA)**
- **Power Supply Modules**
  - AC Input Voltage with filter
  - DC Input Voltage with filter
  - Hold Up

VNX+™

Contact Info

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GET Engineering

9350 Bond Avenue
El Cajon, CA 92021
www.getntds.com

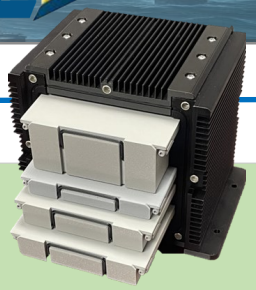
Preliminary

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Architecture

Key characteristics

- **Slot configurations:** 5, 6, or 7 modules
- **Military-grade connectors**
- **Conduction-cooled design** for sealed and harsh environments
- **Wedge-lock module retention (VITA 90.4 compliant)**
- **Rugged construction** for shock, vibration, and extended temperature operation. Design to meet Mil Std 810 and 461
- **Standardized module width** for high-density system integration
- **Modular, mix-and-match architecture** supporting compute, AI, networking, PNT, EW, and I/O functions
- **Scalable power and high-speed data interfaces** via a common VNX+ backplane
- **MOSA-aligned** for rapid upgrade, reuse, and lifecycle flexibility
- LRU at the VNX+ module level

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