Defense VPX System VPX-3500



BLUE LINE
IT for Demanding Environments

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Defense VPX System VPX-3500





Highlights

Blue Line VPX-3500 System is a Modular Military Rugged ATR enclosure, geared for 3U OpenVPX designs. The versatile design allows multiple customizable configurations based on proven components and design techniques. The Hybrid conduction cooling cold plate assisted by forced air sets with aggregate power demands over 300W, assisted by liquid up to 600W.
Custom and standard 5 to 6 slot backplanes with VPX and SOSA aligned slot profiles in combinations supporting high-speed signal processing applications. Scalable to multi CPU-GPU-FPGA requirements. Designed expressly for Gen 4.0 ultra-high wattage military systems.

This rugged VPX ATR System is scalable and customizable, and enables compute-intensive, SWaP-constrained mission-critical applications for deployment in the world's most demanding military and aerospace environments.

Reduce cost and time spending with our global partner model based on your specific requirements. Let Blue Line take responsibility for delivery on time. Blue Line's ultimate goal is to help our customers get peace of mind by handling all relevant details such as securing the right configuration, software setup, mounting, packaging, labeling etc. Ask for references from your industry

• 5 slot - 3 payload plus 2 peripheral

• Intel 11th Tiger Lake W-11865MRE

• Extreme temperature -40°C to 60°C

• MIL-STD-810, MIL-STD-461/1275/704, MIL-S-901D certified

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• NVIDIA MXM RTX A4500 (5888 CUDA)

• 28V DC Input MIL-461/1275/704

• 300W payload by forced-air cooled, 600W payload by liquid cooled

• Custom backplanes with VPX and SOSA aligned slot profiles

• Custom I/O options including MIL-STD wiring & connectors

• Hybrid conduction cooled & heat exchanger sidewalls

• Customization according to your requirements

Specifications

Model Type

Military Rugged VPX ATR

Form Factor

3U ATR

Construction

Aluminium

Cooling

Conduction cooled
Forced-air cooled
Liquid cooled

Environment

Designed to meet MIL-STD-810 and MIL-STD-461

Certification

MIL-STD 810 compliance

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MIL-461/1275/704 compliance

MIL-S-901D compliance

Front Input / Output

Custom I/O options including MIL-STD wiring & connectors

Input / Output

Custom I/O options including MIL-STD wiring & connectors

Expansion

Custom and standard 5 to 6 slot backplanes with VPX and SOSA-aligned slot profiles

Special Function

Customizable configurations, SOSA-aligned slot profiles

Power Supply

18V to 36V DC-IN

Power Consumption

TBD

Dimension and Weight

Dimension	H 269 x W 192.9 x D 389.5mm
Weight	Weight depends on choice of configuration

Accessories Optional

Different backplanes

CPU VPX board

GPU VPX board

Warranty and After Sales Support

Standard 1 year (option for 3 years)

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