





Highlights

The Blue Line 3U VPX CPU TR-LBx is a rugged, conduction-cooled 3U VPX CPU board featuring the 13th Gen Intel® Core™ i7-13800HRE Processor. Designed to meet SOSA™ Technical Standards for I/O intensive processor PICs, it offers significant improvements over its predecessor. With more processor cores, triple the accelerator engines, and double the memory capacity, the TR-LBx delivers enhanced performance for demanding defense and industrial applications in harsh 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.

- Modular processing board
- VPX SOSA aligned
- Plug-in-card
- 14-core processor w/Iris Xe 12th gen
- 100GBASE-KR4 Ethernet data plane
- XMC site for additional I/O resources
- Optional M.2 module for storage with write/protect and Opal 2.0 compliance
- Conduction cooled, -40°C to +85°C operating temperature range



- · Various conformal coating options
- Control plane and magnetics build options
- Shock VITA 47 Class OS2, 40g
- Vibration VITA 47 Class V3, 0.1g2/Hz
- ITAR free
- Customization according to your requirements

Specifications

Model Type

3U VPX CPU Board(PIC)

Form Factor

3U VPX

Construction

Rugged conduction cooled

Cooling

Conduction cooled

Environment

Conduction cooled

-40°C to +85°C

Operating altitude

-1,500 to 60,000 feet(-460 to 18,300 meters)

Humidity

5% - 95% RH (non-condensing)

Processor

i7-13800HRE



RAM
64GB IBECC LPDDR5
Storage
1 x SATA 600(P2)
1 x M.2 SSD
Input / Output
Serial Ports(P2), maintenance port(P1), display port(P2), 2 x USB(P2), 4 x GPIO(P1/P2), 1 x 2.5GBASE-T(control P2), 2 x 10GBASE-KR(control P1), 1 x 100GBASE-KR4 or 1 x 25GBASE-KR or 4 x 10GBASE-KR(Data P1)
Expansion
1 x 4 PCle
Special Function
VPX expansion
Operating System
Supports Linux and Windows
Power Consumption
+12V VSI @ 3.8A, +3.3V AUX @ 0.4A
Dimension and Weight
Dimension 100mm x 160mm (VITA 46.0,VITA 48.0)
Accessories Optional
VPX RTM
M.2 flash module kit
Spare thermal gap pad

Spare M.2 device retainer

	Warranty	and	After	Sales	Sup	port
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Standard 1 year (option for 3 years)