Blue Line 3U VPX CPU TR-LBx

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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

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- 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

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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 PCIe

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 Support

Standard 1 year (option for 3 years)