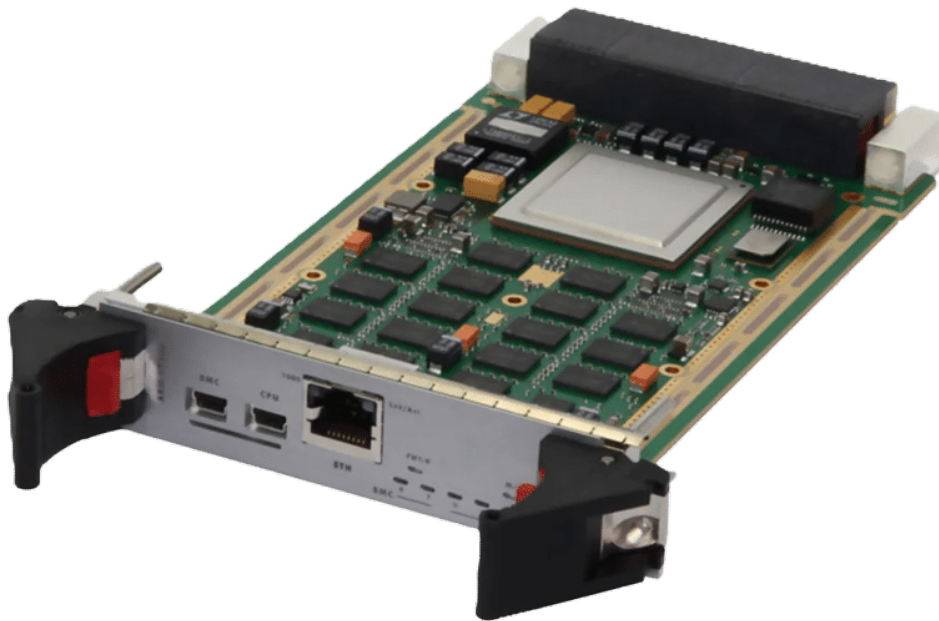


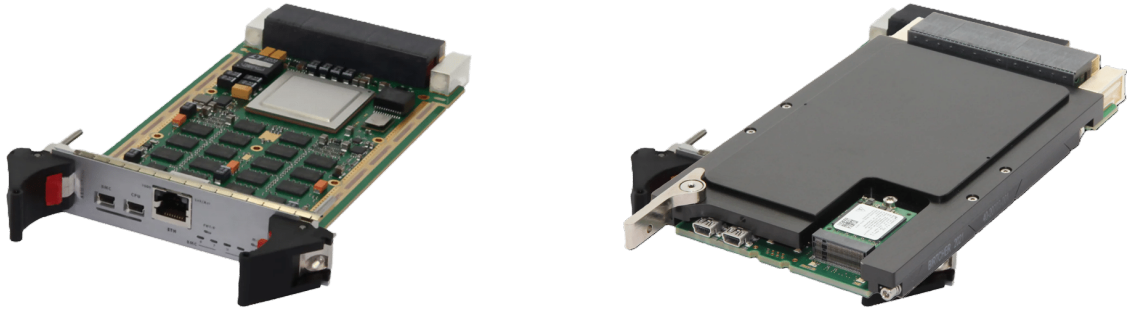
Blue Line 3U VPX System ARM-VPX3c



BLUE LINE
IT for Demanding Environments

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Highlights

Blue line ARM-VPX3c is a rugged 3U VPX LX2080A/LX2160A Arm-based single board computer, designed for applications requiring high processing and communication performance. In combination with low power consumption, the board is a complete and versatile SBC dedicated to 3U VPX compact systems.

This 3U VPX board provides the defense and industrial embedded electronic markets with the latest technological innovations through the NXP Arm® Cortex-A72® based LX2080A/LX2160A multicore communication processor and complies with the VITA 65.0 OpenVPX slot profile SLT3-PAY-1F1F2U1TU1T1U1T-14.2.16.

It features a processor with 16-cores up to 2.2 GHz, two large banks of DDR4 with ECC support, local storage and 10/40G, and 25/100G ethernet interfaces for high bandwidth connections. Last but not least, the board offers a significant number of new security features.

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.

- 3U VPX, VITA 46.11-2015 compliant
- NXP LX2080A/LX2160A Arm processor
- VITA 65.0 SLT3-PAY-1F1F2U1TU1T1U1T-14.2.16
- 10, 25, 40 and 100 GbE interfaces



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- PCI Express Gen 2/3
- Aligned with the SOSA technical standard
- RTC with supercap backup, elapsed time counter
- On-board DC and thermal monitoring
- Engineering kit for debug: JTAG/COP, console and 3U rear transition module available
- Customization according to your requirements

Specifications

Model Type

3U VPX System

Cooling

Air cooled

Conduction cooled

Processor

NXP LX2080A/LX2160A

RAM

Up to 32GB DDR4-ECC

Rear Input / Output

Data Plane (P1): 1 * 40GBASE-KR4 (E8) or 1 * 100GBASE-KR4 (E18), 4 * 10GBASE-KR (4E7), 4 * 25GBASE-KR (4E8)

Expansion plane (P1): 1 * PCIe Gen2/3 x4 port (P3F)

Control Plane (P1 & P2): 2 * 10GBASE-KR (2E7), 1 * 1GBASE-T port (E3)

Storage (P2): 1 * SATA3 Gen3 (S3)

Serial ports (P1 & P2): 1 * RS232 UART (P1), maintenance port, support for both LVCMOS and RS-232 voltage levels, 1 * RS232 (M3) / RS422 UART (M4) (P2)



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USB (P2): 1 * USB2.0 / USB 3.1 (U2), 1 * USB2.0 (U1), Dedicated power supply pins on P1 and P2

GPIOs (P1 & P2): 1 * USB2.0 / USB 3.1 (G1)

Input / Output

1GBASE-T port, 2 * mUSB console port(CPU & BMC)

Special Function

Power-on built-in tests (PBIT)

Management Software

STM32 μ -controller with security features

Operating System

Linux Yocto, VxWorks. Other Linux distributions on request

Power Consumption

30W

Dimension and Weight

3U

Accessories Included

SUBD-9 to mini-USB cable

Warranty and After Sales Support

Standard 1 year (option for 3 years)



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