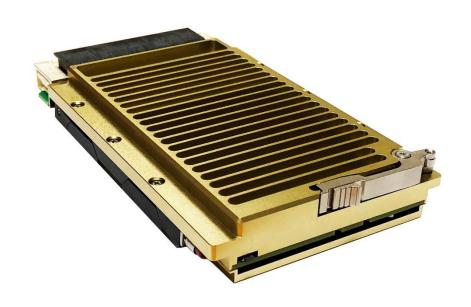


VP32004

3U VPX Board Based on Intel® 3rd Gen Core™ Processors













- Based on Intel[®] 3rd Generation Core™ i7/i5/i3/Celeron[®] processor, 4 3 cores/ 8 threads
- 占 Intel® QM77 chipset
- 3 PCle 3.0 data planes
- 占 Up to 16GB DDR3 memory onboard
- 占 Support mSATA flash disk
- 3 Air Cooling and Conduction Cooling versions



Overview

VP32004 is a high-performance PC-based 3U VPX processor board developed by Linkedhope®. It supports 3rd Gen Intel Core series processor and Intel QM77 chipset. It supports up to 16GB of on-board DDR3 ECC memory and supports mSATA SSD. In order to ensure that VP32004 works stably in a strong shock and vibration environment. VP32004 provides rich I/O interface, including 2x SATA III channels, 2x 1000 Base-BX/T, 1x RS232 front debug serial port, 3x RS232/422/485 interfaces (BIOS configurable), 4x USB2.0 interface, 1x USB3.0 interface, 1x Mini-DisplayPort display interface, 1x rear VGA display interface, 1x PS/2 interface.

The board provides a flexible PCIe bus interface to the backplane that supports multiple configurations and can be configured as 1 x8, 2 x4, 4 x2 PCIe. This feature

makes it suitable for both distributed and centralized switching systems.

In order to facilitate users to quickly form an application solution based on **VP32004**, **Linkedhope**® developed a complete driver package for **VP32004**, supporting Windows, VxWorks, Linux and QNX operating systems.

Apart from the traditional Air Cooling version, **VP32004** provides a Conduction Cooling version to guarantee its performance in harsh environment and in an extended working temperature.

Target applications:

Industrial Control, Transportation, Aerospace, Security & Government

✓ Innovation and Service change our lives!

Technical Information

Specification

- VITA46, VITA65
- MOD3-PAY-2F2U-16.2.3-3 profile compliant
- MOD3-PAY-2F2T-16.2.5-3 profile compliant

Weight

■ ≤490g

Processor

- 3rd Generation Intel® processor up to 4 cores/8 threads
- Intel[®] Core[™] i7/i5/i3/Celeron[®] embedded (Ivy Bridge)

Memory

- Up to 16GB DDR3 SDRAM (1066/1333/1600MHz)
- Dual channel with ECC support
- Soldered on board

VPX Rear I/O

■ P1 VPX Date Plane 01-02:

1x8 PCIe Port (1x8,2x4,4x2 optional)

VPX CPtp01-02:

2x1000BASE-T/BX (BIOS configuration)

2x SATA III; 2x USB2.0;

1x RS232/422/485(BIOS configuration)

■ P2 VPX Rear I/O

VGA, 3xGPIOs, 2x USB2.0, 1x PS/2;

2x RS232/422/485(BIOS configuration)

Serial port

- COM1 ports to the front panel (RS232 on RJ45)
- COM2 ports to P1(RS232/422/485)
- COM3&COM4 ports to P2(RS232/422/485)

Dimension

■ 3U, 4HP/5HP

MTBF

■ >150000 h

Chipset

- Intel® Mobile QM77
- Intel® HM76 PCH (Celeron versions)

Storage

- mSATA
- 2x SATA III on VPX rear I/O

PCle

- x8 Lanes PCI Express 3.0 to PCIe Switch
- x4 Lanes PCI Express 2.0 to Intel 82580EB

Display

- Mini DisplayPort (Front panel)
- VGA On VPX Rear Connector P2

Network Interface

■ One Intel® 82580EB Quad Gigabit Ethernet Controller



Front I/O (Air Cooling version optional)

- Mini DisplayPort
- 1x USB 3.0
- 1x GbE: RJ-45 connectorRS232: RJ-45 connector

OS&BSP

- Windows XP(e), Windows 7/WES 7, Windows 8
- Linux
- VxWorks
- QNX

Humidity

■ 95% RH at 40°C

Temperature

- Operation Temperature:0°C to +60°C & -40°C to +70°C
- Storage Temperature: -55°C to +85°C

Order Information

Product	Part No.	Description
VP32004	10-0000-1032	4HP 3U payload, Intel Core i7-3517UE, 2x 1.7 GHz, Intel QM77, Memory4GB, 4x 2PCIe, 2x GbE, 3x RS232/422/485, 4x USB2.0, 2x SATA+1x mSATA, 1x VGA, PS/2, Without front I/O, -40°C ~ +70°C, Conduction Cooling.
VP32004	10-0000-1076	4HP 3U payload, Intel Core i7-3517UE, 2x 1.7 GHz, Intel QM77, Memory4GB, 4x 2PCIe, 2x GbE, 3x RS232/422/485, 4x USB2.0, 2x SATA+1x mSATA, 1x VGA, PS/2, Front I/O: 1x USB3.0, 1x Mini-DisplayPort, 1x RS232, 1x GbE; -40°C ~ +70°C, Air Cooling.
VP32004	10-0000-0940	4HP 3U payload, Intel Core i7-3555LE, 2x 2.5 GHz, Intel QM77, Memory4GB, 4x 2PCIe, 2x GbE, 3x RS232/422/485, 4x USB2.0, 2x SATA+1x mSATA, 1x VGA, PS/2, Without front I/O, -40°C ~ +70°C, Conduction Cooling.
VP32004	10-0000-1077	4HP 3U payload, Intel Core i7-3555LE, 2x 2.5 GHz, Intel QM77, Memory4GB, 4x 2PCle, 2x GbE, 3x RS232/422/485, 4x USB2.0, 2x SATA+1x mSATA, 1x VGA, PS/2, Front I/O: 1x USB3.0, 1x Mini-DisplayPort, 1x RS232, 1x GbE; -40°C ~ +70°C, Air Cooling.

More optional configuration:

CPU = i7-3615QE (4x2.3GHz), i7-3612QE (4x2.1GHz), i7-3555LE (2x2.5GHz), i7-3517UE(2x1.7GHz), i5-3610ME (2x2.7GHz), i3-3120ME(2x2.4GHz), i3-3217UE(2x1.6GHz), Celeron 1020E(2x2.2GHz), Celeron 1047UE(2x1.4GHz), Celeron 927UE(1x1.5GHz)

Memory = **4GB**, 8GB, 16GB

Front Panel = 4HP, 5HP

Thermal Dissipation = Air Cooling, Conduction Cooling

Please contact LinkedHope® sales rep for more ordering information.

Contact

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