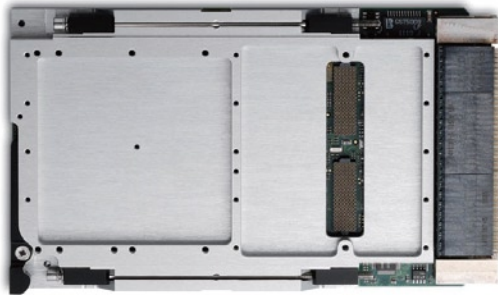


# VPX3000 Series

## Rugged 3U VPX Intel® 3rd Generation Intel® Core™-i7 Processor Blade



VPX™ VPX<sup>REDI</sup> OpenVPX™

CONDUCTION  
COOLED

### Features

- Quad-core 35w or dual-core 25w Intel® 3rd Generation Intel® Core™-i7 processor with QM77 Express chipset
- DDR3-1333 soldered ECC SDRAM
- Two PCIe x4 Gen2 DP 1/2 with NTB
- Two 1000BASE-BX UTP 1/2 and one 10/100/1000BASE-T TP1
- One XMC.3 PCIe x8 Gen2 with Rear I/O

### Specifications

#### Processor & System

CPU	Quad-core Intel® Core™-i7-3612QE 2.1GHz, 6MB LLC cache, TDP=35w Dual-core Intel® Core™-i7-3555LE 2.5GHz, 4MB LLC cache, TDP=25w
Chipset	Mobile Intel® QM77 Express Chipset
Memory	Dual channel DDR3-1333 ECC soldered SDRAM, up to 8GB
BIOS	AMI EFI on 64Mbit SPI flash
VITA standards	VITA 46.0 VPX Base Standard VITA 46.4 PCI Express on VPX Fabric Connector VITA 46.6 Gigabit Ethernet Control Plane on VPX VITA 46.9 PMC/XMC/Ethernet Signal Mapping to 3U/6U VPX VITA 46.10 Rear transition module on VPX VITA 46.11(draft) System Management on VPX VITA 48.0 Ruggedized Enhanced Design Implementation Mechanical Base Specification VITA 65 OpenVPX Architecture Framework for VPX
Module Profile	Module profile: MOD3-PAY-2F2U-16.2.3-3 Slot Profile SLT3-PAY-2F2U-14.2.3

#### Connectivity

XMC	PCIe x8 Gen2 with RIO to P2-X8d+X12d
Ethernet	P1-UTP 1/2 1000BASE-BX (SerDes) P1-TP 1 10/100/1000BASE-T
Graphics	Single channel DVI+RGB to P2
USB	One USB v3.0 and one USB v2.0 to P1
Serial Port	One RS-232 (RTS#,CTS#, SIN, SOUT) and one RS-422 to P2
Audio	Intel® HDA Line-in, Line-out to P2
PCI Express	2x PCIe v.2.0 x4 to P1, configurable to 1x8 or 1x4+4x1 Supports DMA and Non Transparent Bridge for peer to peer communication

#### Storage

SBC	Soldered 16GB SATA-2 boot flash Two SATA 6Gb/s ports to P1 and one SATA 3Gb/s port to P2
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#### Operating System

OS	Red Hat Enterprise Linux 6.2 Wind River VxWorks 6.9 Microsoft Windows 7 32/64bit Microsoft Windows 7 Embedded (Please contact ADLINK for other OS support)
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#### Miscellaneous

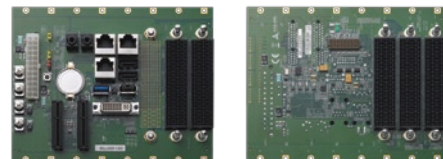
GPIO	Four PCH controlled GPIO to P1/P2
HW monitor	CPU temperature and Power rails
Watchdog Timer	System reset or NMI with programmable interval
LED	Power LED (green)
Reset Button	Board reset button on front panel

#### Mechanical & Environmental

Form Factor	3U VPX 100mm x 160mm x 20.3mm
Operating Temperature	-40° C to 75° C for Intel® Core™ i7-3612QE CPU -40° C to 85° C for Intel® Core™ i7-3555LE CPU All temperature at wedge-lock
Vibration	5Hz-2KHz, 12Grms, random, each axis, operating
Shock	Sawtooth 40G, 11ms, each axis, operating
Altitude	60,000 feet, operating
Power Consumption	100% CPU, memory, VGA, SSD stress 3612QE/M8G 41.7W VS1 (12) 1.9A, VS2 (3.3): 0.8A, VS3 (5V): 3.2A
Weight	515g
EMI/EMC	CE, FCC Class A

#### Ordering Information

Model Number	Description/Configuration
<b>Processor Blades</b>	
VPX3000/3612/M8/S16-S1	Quad-core i7-3612QE 35 with 8GB DDR3 ECC and 16GB SATA SSD soldered, card edge operating temp. -40°C to 75°C
VPX-R300	RTM for VPX3000 with DVI-I, USB2.0, USB3.0, 1000BASE-T on front panel; and Line-in, Line-out, RS-232, RS-422, 2x SATA 3.0, GPIO pin headers, XMC port onboard
tBP-VPX3000	3-slot testbed for VPX-3000; SLT1-2: VITA65 SLT3-PAY-2-F2U-14.2.3, BKP3-DIS02-15.2.8-1 SLT3 I/O: 2 x COM-RJ45, 1 x GbE-RJ45, 1 x DVI-I, 2 x USB, 2 x SATA 6G, 2 x PClex4, Line-in/out Jacks



tBP-VPX3000



VPX-R300