

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

CURTISS-WRIGHT

Curtiss-Wright VPX6-1957-A01A1650 VPX Gen3 Intel Core i7 Quad-Core Single Board Computer

The Curtiss-Wright VPX6-1957-A01A1650 is a 6U VPX single board computer built on the Intel Core i7-3612QE quad-core processor, delivering 2.1 GHz per core with 6 MB L3 cache and Intel AVX support. Engineered for aerospace and defense embedded systems, this SBC operates in air-cooled, conduction-cooled, and Air Flow Through configurations. The platform integrates 8 GB or 16 GB DDR3 SDRAM with ECC protection, 32 GB NAND flash storage using SLC technology rated for 20-year data retention at +85°C, and Intel HD Graphics 4000 capable of driving three independent displays. Connectivity spans quad 1 GbE ports, dual 10 GbE backplane links, 16 lanes of PCIe Gen2 configurable as 4×4, 2×8, or 1×16, four SRIO Gen2 ports, two VITA 42 XMC mezzanine sites, five serial channels, and four SATA 2.0 interfaces. Supports Windows WES7, Linux, and VxWorks operating systems. Graphics: Intel HD Graphics 4000,



MODEL

**Curtiss-Wright
VPX6-1957-
A01A1650**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**VPX6-1957-
A01A1650**

LISTING

<https://aumictechlabs.com/products/vpx6-1957-a01a1650-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Curtiss-Wright VPX6-1957-A01A1650 is a 6U VPX single board computer built on the Intel Core i7-3612QE quad-core processor, delivering 2.1 GHz per core with 6 MB L3 cache and Intel AVX support. Engineered for aerospace and defense embedded systems, this SBC operates in air-cooled, conduction-cooled, and Air Flow Through configurations. The platform integrates 8 GB or 16 GB DDR3 SDRAM with ECC protection, 32 GB NAND flash storage using SLC technology rated for 20-year data retention at +85°C, and Intel HD Graphics 4000 capable of driving three independent displays. Connectivity spans quad 1 GbE ports, dual 10 GbE backplane links, 16 lanes of PCIe Gen2 configurable as 4×4, 2×8, or 1×16, four SRIO Gen2 ports, two VITA 42 XMC mezzanine sites, five serial channels, and four SATA 2.0 interfaces. Supports Windows WES7, Linux, and VxWorks operating systems. Technical Specifications Processor: Intel Core i7-3612QE, Quad-Core, 2.1 GHz, 6 MB L3 Cache Memory: 8 GB or 16 GB DDR3 SDRAM at 1333 MT/s (21.3 GB/s throughput) with ECC Storage: 32 GB NAND flash SLC (two 8 GB SATA drives), 16 MB SPI flash for BIOS Graphics: Intel HD Graphics 4000, 650 MHz base / 1 GHz peak, 16 execution units, 141 GFLOPS Memory Data Retention: Minimum 20 years at +85°C Key Features Quad 1 GbE ports (two 10/100/1000Base-T, two Base-X SerDes); dual 10 GbE backplane (10GBase-KX4/XAUI) 16 lanes PCIe Gen2 to backplane, reconfigurable 4×4 / 2×8 / 1×16 Four SRIO Gen2 ports (4-lane each) to Data Plane Two VITA 42 XMC sites with PCIe Gen1/Gen2 and PMC/PCI-X compatibility Five serial ports: two RS-232, three RS-422 (300–115200 Kbaud) Four SATA 2.0 backplane, two internal SATA ports Typical Applications Aerospace and defense systems requiring high compute density, multi-protocol I/O, and thermal flexibility in rugged environments. Compatibility & Integration Supports Windows WES7, Linux, and VxWorks. Mezzanine expansion via VITA 42 XMC with VPX backplane signal mapping per VITA 46.9.

VPX61957A01A1650 Characteristics / Specifications

PARAMETER	VALUE
Model	VPX6-1957
Instrument Type	6U OpenVPX Intel single board computer
Form Factor	6U VPX OpenVPX
Processor	Intel 3rd Generation Core i7 Ivy Bridge
Cpu Cores	4
Cpu Speed	2.1 GHz
L3 Cache	6 MB
Process Node	22 nm
Memory Maximum	16 GB DDR3 SDRAM
Memory Bandwidth Peak Class	21 GB/s peak DDR3 subsystem
Nand Flash	16 GB or 32 GB
Xmc Pmc Sites	2
Srio Fabric	four x4 SRIO Gen2 at 5.0 Gbps
Pcie Fabric	16x PCIe Gen2 or dual 8x PCIe Gen2
Ten Gigabit Ethernet Ports	2
Gigabit Ethernet Ports Class	up to 4
Graphics Outputs	dual DVI
Usb Ports Class	up to 5
Sata Ports Class	up to 4
Serial Ports Class	RS232 and RS422
Gpio Class	8 GPIO class
Trusted Features	Intel VT-d TxT and Trusted COTS
Cooling Options	air cooled conduction cooled and air flow through
Os Support	Windows WES7 Linux VxWorks
Avx Support	Intel AVX floating point libraries

PARAMETER	VALUE
Bandwidth	Peak Class: 21 GB/s peak DDR3 subsystem

VPX61957A01A1650 Specifications

PARAMETER	VALUE
Key Features	Quad core Ivy Bridge Core i7 at 2.1 GHz
Up to 16 GB DDR3 SDRAM	16 or 32 GB NAND flash
Four x4 SRIO Gen2 plus PCIe Gen2 fabrics	Dual 10 GbE and multiple GbE ports
Technical Specifications	Model: VPX6-1957

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	VPX6-1957
Instrument Type	6U OpenVPX Intel single board computer
Form Factor	6U VPX OpenVPX
Processor	Intel 3rd Generation Core i7 Ivy Bridge
Cpu Cores	4
Cpu Speed	2.1 GHz
L3 Cache	6 MB
Process Node	22 nm
Memory Maximum	16 GB DDR3 SDRAM
Memory Bandwidth Peak Class	21 GB/s peak DDR3 subsystem
Nand Flash	16 GB or 32 GB
Xmc Pmc Sites	2
Srio Fabric	four x4 SRIO Gen2 at 5.0 Gbps
Pcie Fabric	16x PCIe Gen2 or dual 8x PCIe Gen2
Ten Gigabit Ethernet Ports	2
Gigabit Ethernet Ports Class	up to 4
Graphics Outputs	dual DVI
Usb Ports Class	up to 5
Sata Ports Class	up to 4
Serial Ports Class	RS232 and RS422
Gpio Class	8 GPIO class
Trusted Features	Intel VT-d TxT and Trusted COTS
Cooling Options	air cooled conduction cooled and air flow through
Os Support	Windows WES7 Linux VxWorks
Avx Support	Intel AVX floating point libraries

Notes

Numeric rows from Curtiss-Wright VPX6-1957 product announcements and distributor configuration guides for the Ivy Bridge OpenVPX SBC. Dash codes select memory flash fabric and cooling grade.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.