Veriton P130 F3 Specifications

Product overview
The Veriton P130 F3 workstation supports Intel® Xeon® E3-1200 v3 processors and a wide range of the latest NVIDIA® graphics cards to deliver rock-solid performance and great flexibility. With power-saving hardware as well as substantial advancements in HDD and memory maximization, the Veriton P130 F3 offers a comprehensive solution for all business scenarios.

Product views

Internal view

1. 500 W 80 PLUS® Gold-certified fixed power supply
2. 4 x DDR3 ECC unbuffered DIMMs
3. Intel® Xeon® E3-1200 v3 series, Core i series, Pentium series processors
4. 3 x PCIe & 1 PCI expansion slots
5. 2 x 5.25” media expansion bays
6. 4 x 3.5” hard drive bays
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Front I/O
1. 2 x USB 3.0 ports
2. 2 x USB 2.0 ports
3. Microphone-in jack / Speaker- / line-out jack
4. LED indicators: HDD activity, LAN / Power button

Rear I/O
1. DisplayPort / Serial port
2. DVI-D port / VGA port
3. 2 x USB 3.0 ports / Gigabit LAN port (RJ-45)
4. 4 x USB 2.0 ports
5. Microphone-in jack / Speaker- and line-out jack / Line-in jack
Veriton P130 F3 Specifications

Product Specifications

What’s New
• Intel® Xeon® E3-1200 v3 series processors
• USB 3.0
• 6 Gb/s SATA3
• Standard 500 W 80 PLUS® Gold-certified fixed power supply
• On-board audio

Processors and Chipset
• Intel® Xeon® E3-1200 v3 series, Core™ i7, i5 and i3 series, Pentium® series processors
• Chipset: Intel® C226

Memory
• Memory capacity:
  • Unbuffered DIMM: 2, 4, 8 GB
• Maximum capacity: up to 32 GB unbuffered ECC DIMMs when fully populated with 2 DIMMs per channel in 4 slots

Onboard Graphics
Onboard graphic specifications depend on the processor installed.
• Intel® Core™ and Pentium® processors: Intel HD Graphics (exact version depends on processor used).
• Intel® Xeon® without 2GT: no onboard graphics capability, an add-in graphics card must be installed.

Add-in Graphics
• NVIDIA® Quadro®
• NVIDIA® Quadro® NVS
• NVIDIA® GeForce®

Onboard Audio
• Realtek High Definition Audio ALC262

Network Controllers
• Integrated single-port Intel® I217LM Gigabit Ethernet

Storage
• Hard disk form factor: 3.5"
• Type: SATA

Storage Controllers
• Intel® C226 onboard storage controller
• Intel® RST 12.x, RAID 0, 1, 5, 10

Expansion slots
• 1 x PCIe® 3.0 x16
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• 1 x PCIe® 2.0 x4 (x8 connector)
• 1 x PCIe® 2.0 x1 (x4 connector)
• 1 x PCI

Deployment/Serviceability

• Acer Resource Kit
• BIOS Update Tool

Operating Systems

• Windows 8 Pro
• Windows 7 Ultimate
• Windows 7 Professional
• Red Hat Enterprise Linux Workstation 6.4
• Ubuntu 12.04.02 Desktop

Input/output interface

Front

• 2x USB 3.0 ports
• 2x USB 2.0 ports
• Microphone-in jack
• Speaker- / line-out jack
• Power/off button
• LED indicators: power, HDD activity, LAN

Rear

• 2 x USB 3.0 ports
• 4 x USB 2.0 ports
• Serial port
• DisplayPort
• DVI-D port
• Video (D-sub) port
• Gigabit LAN port
• Microphone-in jack
• Line-in jack
• Speaker- / line-out jack

Optical drive

• SuperMulti drive
• DVD-ROM drive

Chassis/Form Factor

• Micro ATX tower

Power Supply

• 500 W 80 PLUS® Gold-certified fixed power supply

Regulatory Compliant Standards

• Energy Star® compliant
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EMC
- FCC (Class B)
- CE (Class B)
- BSMI (Class B)

Safety
- MET
- CB
- Nemko/GS

Environmental Specifications

**Dimensions**
180 (W) x 406 (D) x 385 (H) mm (7.1 (W) x 16 (D) x 15.2 (H) inches)

**Weight**
- Maximum:
  - 12.4 kg (27.3 lbs.)
- Minimum (includes a single HDD, CPU and RAM, and PSU):
  - 10.2 kg (22.4 lbs.)

**System inlet temperature**
- Operating:
  - 5° - 40° C (41° - 104° F)
- Non-operating:
  - -20°- 60° C (-4° to 140° F)

**Relative humidity**
- Operating:
  - 30 ~ 80%
- Non-operating:
  - 5 ~ 95%

**Acoustics**
<table>
<thead>
<tr>
<th>State</th>
<th>LWAd</th>
<th>LpAm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Idle</td>
<td>3.27 BA</td>
<td>19.7 dBA</td>
</tr>
<tr>
<td>Operating</td>
<td>3.88 BA</td>
<td>26.2 dBA</td>
</tr>
</tbody>
</table>

**Power**
- Range line voltage:
  - 100 ~ 120 Vrms, 200 ~ 240 Vrms
- Rated input current:
  - 10 A max. (at 100 ~ 127 Vrms/ 60 Hz)
  - 5 A max. (at 220 ~ 240 Vrms/ 50 Hz)
- Rated input frequency:
  - 47 ~ 63 Hz
- Rated input power:
  - 569.625 W (at 100 VAC)
- Fixed 500 W Gold-certified high-efficiency power supply.

**BTU rating (maximum)**
- 1944.11 BTU/hr (at 100 VAC), 1835 BTU/hr (at 240 VAC)

**Technical specifications**

**PCIe® specifications**
The primary I/O bus for the main board is PCIe Gen3. The following table lists the characteristics of the PCI-E bus segments. Details about each bus segment follow the table.
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**NOTE:** The signaling bit rate of PCI Express is 2.5Gbit/s for Gen 1, 5.0Gbit/s for Gen 2, and 8.0Gbit/s for Gen 3.

<table>
<thead>
<tr>
<th>Expansion slot</th>
<th>CPU / PCH</th>
<th>Type</th>
<th>Bus width¹</th>
<th>Voltage</th>
<th>Connector</th>
<th>Location</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCIe x16</td>
<td>CPU1</td>
<td>PCIe Gen3</td>
<td>x16</td>
<td>3.3 V</td>
<td>x16</td>
<td>Onboard</td>
<td>Full-height</td>
</tr>
<tr>
<td>PCIe x8</td>
<td>PCH</td>
<td>PCIe Gen2</td>
<td>x4</td>
<td>3.3 V</td>
<td>x8</td>
<td>Onboard</td>
<td>Full-height</td>
</tr>
<tr>
<td>PCIe x4</td>
<td>PCH</td>
<td>PCIe Gen2</td>
<td>X1</td>
<td>3.3 V</td>
<td>x4</td>
<td>Onboard</td>
<td>Full-height</td>
</tr>
<tr>
<td>PCI</td>
<td>PCH</td>
<td>PCI</td>
<td>32 bit</td>
<td>5 V</td>
<td>PCI</td>
<td>Onboard</td>
<td>Full-height</td>
</tr>
</tbody>
</table>

**NOTE:**

1. Indicates the number of physical electrical lanes running to a PCIe® connector.

Slots are enumerated differently based on the operating system. Microsoft® operating systems enumerate Device ID by bus starting from the lowest bus to the highest.

NVIDIA® Quadro® 4000 graphics card requires an additional 12 V power connection (from the power supply). The tool-less PCI holder may not be used in systems using the NVIDIA® Quadro® 4000; all PCI cards must instead be fastened with screws.

### Onboard storage specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controller</td>
<td>Intel® C226 onboard controller</td>
</tr>
<tr>
<td>Simultaneous drive transfer channels</td>
<td>6 onboard SATA ports</td>
</tr>
<tr>
<td>Max throughput per channel</td>
<td>6 Gb/s</td>
</tr>
<tr>
<td>Data transfer method</td>
<td>• Non-RAID mode</td>
</tr>
<tr>
<td></td>
<td>• RAID mode</td>
</tr>
<tr>
<td>Drive type supported</td>
<td>Serial ATA</td>
</tr>
<tr>
<td>RAID levels support</td>
<td>• RAID 0, 1, 5, 10 (Intel software RAID)</td>
</tr>
<tr>
<td><strong>NOTE:</strong></td>
<td>Intel software RAID only supports Windows OS</td>
</tr>
<tr>
<td>RAID function support</td>
<td>• Supports multiple logical volumes</td>
</tr>
<tr>
<td></td>
<td>• Setup through ROM based Array Configuration Utility Installation scripting support</td>
</tr>
<tr>
<td><strong>NOTE:</strong></td>
<td>This controller does not support hot plug or LED functions</td>
</tr>
<tr>
<td>RAID OS support</td>
<td>• Windows 8 Pro</td>
</tr>
<tr>
<td></td>
<td>• Windows 7 Ultimate</td>
</tr>
<tr>
<td></td>
<td>• Windows 7 Professional</td>
</tr>
<tr>
<td></td>
<td>• NCQ (Native Command Queuing)</td>
</tr>
<tr>
<td></td>
<td>• AHCI (Advanced Host Controller Interface)</td>
</tr>
</tbody>
</table>
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Onboard LAN specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controller</td>
<td>Intel PHY I217LM</td>
</tr>
<tr>
<td>Port number</td>
<td>Single port</td>
</tr>
<tr>
<td>Network interface</td>
<td>10Base-T / 100Base-TX / 1000Base-T</td>
</tr>
<tr>
<td>Compatibility standards</td>
<td>• IEEE 802.3 Ethernet interface for 10BASE-T</td>
</tr>
<tr>
<td></td>
<td>• IEEE 802.3ab Ethernet interface for 1000BASE-T</td>
</tr>
<tr>
<td></td>
<td>• IEEE 802.3u Ethernet interface for 100BASE-T</td>
</tr>
<tr>
<td>Remote boot functionality</td>
<td>Support PXE, iSCSI boot</td>
</tr>
<tr>
<td>Connector</td>
<td>RJ-45</td>
</tr>
<tr>
<td>Supported cable type</td>
<td>Cat 5e, Cat 6 wire</td>
</tr>
</tbody>
</table>

Memory specifications and population

Supported memory types

- Unbuffered DDR3 1333 /1600 MHz

**NOTE:** Acer does not qualify mixed memory configurations of memory type, capacity or make.

Population

Acer’s validated memory populations are listed below.

**NOTE:** Support for 8 GB DIMMs may vary by regional availability.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>DIMM_A0</th>
<th>DIMM_A1</th>
<th>DIMM_B0</th>
<th>DIMM_B1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 GB</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>2 GB</td>
</tr>
<tr>
<td>4 GB</td>
<td>None</td>
<td>2 GB</td>
<td>None</td>
<td>2 GB</td>
</tr>
<tr>
<td>8 GB</td>
<td>2 GB</td>
<td>2 GB</td>
<td>2 GB</td>
<td>2 GB</td>
</tr>
<tr>
<td>4 GB</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>4 GB</td>
</tr>
<tr>
<td>8 GB</td>
<td>None</td>
<td>4 GB</td>
<td>None</td>
<td>4 GB</td>
</tr>
<tr>
<td>16 GB</td>
<td>4 GB</td>
<td>4 GB</td>
<td>4 GB</td>
<td>4 GB</td>
</tr>
<tr>
<td>8 GB</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>8 GB</td>
</tr>
<tr>
<td>16 GB</td>
<td>None</td>
<td>8 GB</td>
<td>None</td>
<td>8 GB</td>
</tr>
<tr>
<td>32 GB</td>
<td>8 GB</td>
<td>8 GB</td>
<td>8 GB</td>
<td>8 GB</td>
</tr>
</tbody>
</table>

Power specifications

500 W power supply

<table>
<thead>
<tr>
<th>Power supply input</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Line Voltage</td>
<td>100 to 127 VAC ; 220 to 240 VAC</td>
</tr>
<tr>
<td>Rated Input Current</td>
<td>500 W power supply: 10 A (@ 100<del>127 VAC), 5 A (@220</del>240 VAC)</td>
</tr>
<tr>
<td>Rated Input Frequency</td>
<td>47 to 63 Hz</td>
</tr>
<tr>
<td>Rated Input Power</td>
<td>500 W power supply: 569.625 W (@ 100 VAC)</td>
</tr>
</tbody>
</table>
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Power supply output
Rated Steady-State Power 500 W power supply
Maximum Peak Power 500 W power supply

BTU Rating (Maximum)
500 W power supply: 1944.11 BTU/hr (@ 100 VAC), 1835 BTU/hr (@240 VAC)

Available options

Processors
Intel® Xeon® E3-1200 v3 Processors
E3-1280 v3 (8 MB L3 cache, 3.60 GHz, DDR3 1600/1333 MHz, 82 W, quad core)*
E3-1275 v3 (8 MB L3 cache, 3.50 GHz, DDR3 1600/1333 MHz, 84 W, quad core, 2GT**)  
E3-1270 v3 (8 MB L3 cache, 3.50 GHz, DDR3 1600/1333 MHz, 80 W, quad core)*
E3-1245 v3 (8 MB L3 cache, 3.40 GHz, DDR3 1600/1333 MHz, 84 W, quad core, 2GT**)  
E3-1240 v3 (8 MB L3 cache, 3.40 GHz, DDR3 1600/1333 MHz, 80 W, quad core)*
E3-1230 v3 (8 MB L3 cache, 3.30 GHz, DDR3 1600/1333 MHz, 80 W, quad core)*
E3-1225 v3 (8 MB L3 cache, 3.20 GHz, DDR3 1600/1333 MHz, 84 W, quad core, 2GT**)  
E3-1220 v3 (8 MB L3 cache, 3.10 GHz, DDR3 1600/1333 MHz, 80 W, quad core)*  

Intel® Core™ i7 Processors
Intel® Core™ i7-4770 (8 MB, 3.4 GHz, DDR3 1600, 84 W, quad core)***  

Intel® Core™ i5 Processors
Intel® Core™ i5-4670 (6 MB, 3.4 GHz, DDR3 1600, 84 W, quad core)***  
Intel® Core™ i5-4670S (6 MB, 3.1 GHz, DDR3 1600, 65 W, quad core)***  

Intel® Core™ i3 Processors
Intel® Core™ i3-4340 (4 MB, 3.6 GHz, DDR3 1600, 54 W, dual core)***  

Intel® Pentium® Processors
Intel® Pentium® G3430 (3 MB, 3.3 GHz, DDR3 1600, 54 W, dual core)***  

* No integrated graphics, an add-in graphics card must be installed  
** Integrated Intel HD Graphics P4600  
*** Integrated Intel HD Graphics

Memory
Memory type Unbuffered DDR3 ECC memory  
Capacities 2/4/8 GB DIMMs  
DIMM number 4  
Max memory 32 GB
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**Hard drives**

<table>
<thead>
<tr>
<th>Type</th>
<th>Interface, bandwidth</th>
<th>Capacities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Nearline SATA, 3.5&quot;</td>
<td>6 Gb/s</td>
<td>500 GB (7.2K)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 TB (7.2K)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 TB (7.2K)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 TB (7.2K)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 TB (7.2K)</td>
</tr>
<tr>
<td>Consumer-level SATA, 3.5&quot;</td>
<td>6 Gb/s</td>
<td>500 GB (7.2K)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 TB (7.2K)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 TB (7.2K)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 TB (7.2K)</td>
</tr>
</tbody>
</table>

**Video cards**

Onboard graphic specifications depend on the processor installed.
- Intel® Core™ processor: Intel HD Graphics (exact version depends on processor used).
- Intel® Xeon® without 2GT: no onboard graphics capability, an add-in graphics card must be installed.

**NVIDIA® Quadro®**

- NVIDIA® Quadro® 4000, 2 GB, DVI / DPx2, ATX (requires additional 12 V power)*
- NVIDIA® Quadro® 2000, 1 GB, DVI / DPx2, ATX
- NVIDIA® Quadro® 600, 1 GB, DVI / DP, ATX
- NVIDIA® Quadro® 410, 512 MB, DVI / DP, ATX

**NVIDIA® Quadro® NVS**

- NVIDIA® Quadro® NVS450, 512 MB, DPx4, ATX
- NVIDIA® Quadro® NVS310, 512 MB, DPx2, ATX

**NVIDIA® GeForce®**

- NVIDIA® GeForce® GT605, 1 GB, DVI / DP, ATX

* The tool-less PCI holder may not be used in systems using the NVIDIA® Quadro® 4000; all PCI cards must instead be fastened with screws.

**Optical drives**

- DVD-ROM
- SuperMulti (DVD ± RW)

**Ethernet network cards**

<table>
<thead>
<tr>
<th>Model</th>
<th>Port number</th>
<th>Bandwidth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Gigabit CT2 desktop adapter</td>
<td>1</td>
<td>10/100/1000 Mbps</td>
</tr>
</tbody>
</table>
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Intel® i350-T2 server adapter 2 10/100/1000 Mbps

TPM module
TPM 1.2 module with Nuvoton chip

Service and support
Acer workstations offer a comprehensive service suite to take care of daily IT needs. Users can select the 3-year standard warranty or choose extended warranties and services.

In a continuing effort to improve the quality of our products, information in this document is subject to change without notice. Images shown are only representations of some of the configurations available for this model. Availability may vary depending on region.

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