



## Datasheet

# Vantageo 22L2F-ERT

### Key Features

- Virtualization
  - Cloud Computing
  - Flexible Networking Options
  - Hyperconverged Storage
  - High End Enterprise Server
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1. Dual AMD EPYC™ 7003/7002 Series Processors (7003 Series Processor drop-in support requires BIOS version 2.0 or newer)
  2. 8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs
  3. Expansion slots: 2 PCI-E 4.0 x16 (FH, 10.5" L) slots, 1 PCI-E 4.0 x16 (FH, 9.5" L) slot, 1 PCI-E 4.0 x16 (LP) slot, 1 PCI-E 4.0 x8 (FH, 9.5" L, in x16) slot, 1 PCI-E 4.0 x8 (internal proprietary LP in x16) slot
  4. Integrated IPMI 2.0 + KVM with dedicated LAN • Software Out of Band License key (SFT-OOB-LIC) included for OOB BIOS management
  5. Dual 10GBase-T LAN ports via Intel® X710-AT2
  6. 12 hot-swap 3.5" Drive Bays: 12 SATA3 by default or 8 SATA3 + 4 NVMe via optional tray or 12 SAS3 via optional SAS kit
  7. 1600W Redundant Power Supplies Titanium Level (96%+) (Full redundancy based on configuration and application load)
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# SPECIFICATIONS

## Chassis

Form Factor 2U

Model

22L2F-ERT

## Processor / Chipset

CPU

- Dual AMD EPYC™ 7003/7002 Series Processors (7003 Series Processor drop-in support requires BIOS version 2.0 or newer)
- Socket SP3
- Supports CPU TDP up to 280W\*

Note

- \* Certain CPUs with high TDP higher than 225W may be supported only under specific conditions. Please contact Vantageo Technical Support for additional information about specialized system optimization

Cores

- Up to 64 Cores

## Dimensions

Height	• 3.5" (89mm)	Depth	• 28.46" (723mm)
Width	• 17.2" (437mm)	Weight	• Net Weight: 36 lbs (16.4 kg) • Gross Weight: 72 lbs (32.7 kg)
Package	• 9.96" (H) 24.60" (W) 45.43" (D)		

## System Memory

Memory Capacity

- 32 DIMM slots
- Supports up to 8TB Registered ECC DDR4 3200MHz SDRAM
- 8-channel memory bus

Error Detection

- Corrects single-bit errors
- Detects double-bit errors (using ECC memory)

Memory Type

- DDR4 3200 MHz Registered ECC, 288-pin gold-plated DIMMs

Memory Voltage

- 1.2V

DIMM Sizes

- 4GB, 8GB, 16GB, 32GB, 64GB, 128GB, 256GB

## Expansion Slots

2U

- 2 PCI-E 4.0 x16 (FH, 10.5" L) slots
- 1 PCI-E 4.0 x16 (FH, 9.5" L) slot
- 1 PCI-E 4.0 x16 (LP) slot
- 1 PCI-E 4.0 x8 (FH, 9.5" L, in x16) slot
- 1 PCI-E 4.0 x8 (internal proprietary LP in x16) slot

Note

- (Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram and AOC Support for details.)

## On-Board Devices

SATA SATA3 (6 Gbps)

Graphics

ASPEED AST2500 BMC

## Backplane

HDD Backplane

Supports 12 SATA3 or 8 SATA3 + 4 NVMe or 12 SAS3 HDD

## Drive Bay

Hot-Swap • 12 hot-swap 3.5" Drive Bays: 12 SATA3 by default or 8 SATA3 + 4 NVMe via optional kit or 12 SAS3 via optional SAS kit

## System Cooling

Fans • 4 heavy-duty PWM fans with optimal fan speed control

# SPECIFICATIONS

## Input / Output

<b>USB</b>	3 USB 3.0 ports (2 rear + 1 Type A)	<b>SATA</b>	<ul style="list-style-type: none"> <li>• 12 SATA3 (6 Gbps) ports</li> </ul>
<b>VGA</b>	1 VGA port	<b>LAN</b>	<ul style="list-style-type: none"> <li>• Dual 10GBase-T LAN ports via Intel® X710-AT2</li> <li>• 1 RJ45 Dedicated IPMI LAN port</li> </ul>
<b>SAS</b>	<ul style="list-style-type: none"> <li>• 12 SAS3 ports support via optional SAS kit</li> </ul>	<b>Others</b>	<ul style="list-style-type: none"> <li>• 1 COM port (rear)</li> <li>• 2 SATA DOM power connector</li> <li>• TPM 1.2 header</li> </ul>
<b>NVMe</b>	<ul style="list-style-type: none"> <li>• 4 NVMe support via optional tray</li> </ul>		

## System BIOS

<b>BIOS Type</b>	AMI 128Mb SPI Flash EEPROM	<b>LAN</b>	<ul style="list-style-type: none"> <li>• Plug and Play (PnP)</li> <li>• DMI 2.3</li> <li>• PCI 2.2</li> <li>• ACPI 5.1</li> <li>• USB Keyboard Support</li> <li>• SMBIOS 3.1.1</li> </ul>
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## Front Panel

<b>Buttons</b>	<ul style="list-style-type: none"> <li>• Power On/Off button</li> <li>• System Reset button</li> </ul>	<b>LEDs</b>	<ul style="list-style-type: none"> <li>• Power LED</li> <li>• Hard drive activity LED</li> <li>• 2x Network activity LEDs</li> <li>• System Overheat LED / Fan fail LED / UID LED</li> </ul>
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## Operating Environment

<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>• Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>• Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>• Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>• Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>	<b>RoHS</b>	<ul style="list-style-type: none"> <li>• RoHS Compliant</li> </ul>
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## PC Health Monitoring

<b>CPU</b>	<ul style="list-style-type: none"> <li>• Monitors CPU Core Voltages, +12V, +3.3V, +5V, +5V standby, 3.3V standby, VBAT</li> <li>• CPU switching voltage regulator</li> </ul>	<b>FAN</b>	<ul style="list-style-type: none"> <li>• Up to 8-fan status tachometer monitoring</li> <li>• Up to eight 4-pin fan headers</li> <li>• Status monitor for speed control</li> <li>• Pulse Width Modulated (PWM) fan connectors</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>• Monitoring for CPU and chassis environment</li> <li>• CPU Thermal Trip Support</li> <li>• Thermal control for 8x Fan connectors</li> <li>• I<sup>2</sup>C Temperature Sensing Logic</li> </ul>	<b>LED</b>	<ul style="list-style-type: none"> <li>• CPU / System Overheat LED</li> </ul>
		<b>Other Features</b>	<ul style="list-style-type: none"> <li>• Chassis Intrusion Detection</li> <li>• Chassis Intrusion Header</li> </ul>

# SPECIFICATIONS

## Power Supply

1600W Redundant Power Supplies with PMBus

Input	<ul style="list-style-type: none"> <li>• 100-127Vac / 13 - 9A / 50-60Hz</li> <li>• 200-240Vac / 10 - 8A / 50-60Hz</li> </ul>	Dimension (WxHxL)	<ul style="list-style-type: none"> <li>• 73.5 x 40 x 203 mm</li> </ul>
12V sb	<ul style="list-style-type: none"> <li>• Max: 2.1A / Min: 0A</li> </ul>	+12V	<ul style="list-style-type: none"> <li>• Max: 83.3A / Min: 0A (100-127Vac)</li> <li>• Max: 133A / Min: 0A (200-240Vac)</li> </ul>
Output Type	<ul style="list-style-type: none"> <li>• 25 Pairs Gold Finger Connector</li> </ul>	Total Output Power	<ul style="list-style-type: none"> <li>• 1600W/1000W</li> </ul>

Certification



Titanium Level

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