

## Vantageo 2540-WS

Flexible, Scalable, and Secure



**Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors**

### Key Features

1. Support CXL
2. 5th/4th Gen Intel® Xeon® Scalable processors, Dual Socket LGA-4677 (Socket E) , CPU TDP supports up to 350W TDP
3. Intel® C741 Chipset
4. DDR5 4800 MT/s in 16DIMM slots
5. 4 PCIe 5.0 x16
6. 2 PCIe 5.0 x8
7. Broadcom BCM5720 Dual ports 1G LAN
8. 6 USB3.0 and 3 USB2.0
9. 2 SATA DOM ports
10. 2 M.2

| Vantageo 2540-WS      |                                                                                                                                                                                                                                            |                                                             |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Features              | Technical Specification                                                                                                                                                                                                                    |                                                             |
| CPU                   | 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors<br>Dual Socket Socket E (LGA-4677) supported, CPU TDP supports Up to 350W TDP                                                                                              |                                                             |
| CPU                   | Up to 64 cores                                                                                                                                                                                                                             |                                                             |
| Memory Capacity       | 16 DIMM slots<br>Up to 4 TB 3DS ECC RDIMM, DDR5 -4800 MT/s                                                                                                                                                                                 |                                                             |
| Memory Type           | 5600/5200/4800/4400/4000 MT/s ECC DDR5 RDIMM (3DS) Up to 256GB of memory with speeds of up to 5600MT/s(1DPC)                                                                                                                               |                                                             |
| DIMM Sizes            | 16GB, 32GB, 64GB, 96(XCC Only)GB, 128GB, 256GB<br>RDIMM: Up to 256GB                                                                                                                                                                       |                                                             |
| Chipset               | Intel® C741                                                                                                                                                                                                                                |                                                             |
| SATA                  | Intel® C741 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10<br>Intel® C741 controller for 2 SATA3 (6 Gbps) ports; RAID 0,1                                                                                                            |                                                             |
| IPMI                  | ASPEED AST2600 BMC                                                                                                                                                                                                                         |                                                             |
| Network Controllers   | Dual LAN<br>Dual LAN with Broadcom BCM5720 1GBase-T                                                                                                                                                                                        |                                                             |
| SATA                  | 8 SATA3 (6Gbps) port(s)<br>2 SATA3 (6Gbps) port(s)                                                                                                                                                                                         |                                                             |
| LAN                   | 1 RJ45 Dedicated IPMI LAN port                                                                                                                                                                                                             |                                                             |
| USB                   | 6 USB 3 port(s) (2 via header; 4 rear)<br>3 USB 2 port(s) (2 via header; 1 Type A)                                                                                                                                                         |                                                             |
| Video Output          | 1 VGA D-Sub Connector port(s)                                                                                                                                                                                                              |                                                             |
| Serial Port           | 2 COM Port(s) (1 header; 1 rear)                                                                                                                                                                                                           |                                                             |
| TPM                   | 1 TPM Header                                                                                                                                                                                                                               |                                                             |
| Others                | 3 MCIO PCIe 5.0 x8                                                                                                                                                                                                                         |                                                             |
| PCIe                  | 2 PCIe 5.0 x8,<br>4 PCIe 5.0 x16                                                                                                                                                                                                           |                                                             |
| Dimensions and Weight | Height                                                                                                                                                                                                                                     | (506 mm)                                                    |
|                       | Width                                                                                                                                                                                                                                      | (232 mm)                                                    |
|                       | Depth                                                                                                                                                                                                                                      | (527 mm)                                                    |
|                       | Weight                                                                                                                                                                                                                                     | Gross Weight: 62 lbs (28.1 kg) Net Weight: 46 lbs (20.9 kg) |
| M.2                   | M.2 Interface: 2 PCIe 4.0 x2<br>Form Factor: 2280/22110<br>Key: M-Key                                                                                                                                                                      |                                                             |
| BIOS Type             | AMI 32MB AMI UEFI                                                                                                                                                                                                                          |                                                             |
| BIOS Features         | ACPI 6.4<br>SMBIOS 2.8/3.5<br>UEFI 2.8A<br>Plug and Play (PnP)<br>PCI FW 3.2                                                                                                                                                               |                                                             |
| Hardware              | Trusted Platform Module (TPM) 2.0                                                                                                                                                                                                          |                                                             |
| Voltage               | System temperature, PCH temperature, Memory temperature, CPU temperature, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support, +3.3V standby, Veore, Vmem, Peripheral temperature, Platform Environment Control Interface (PECI)/(TSI) |                                                             |
| LED                   | UID/Remote UID<br>CPU / System Overheat LED                                                                                                                                                                                                |                                                             |

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| Features                | Technical Specification                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature             | Monitoring for CPU and chassis environment<br>CPU thermal trip support<br>Thermal Monitor 2 (TM2) support<br>PECI                                                                                                                                                                                                                                   |
| FAN                     | 8x 4-pin fan headers (up to 8 fans)<br>Fan speed control<br>Overheat LED indication<br>8x fans with tachometer monitoring                                                                                                                                                                                                                           |
| Other Features          | UID, Node Manager Support, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management                                                                                                                                                                                              |
| Form Factor             | Mid Tower                                                                                                                                                                                                                                                                                                                                           |
| Materials               | Steel + Plastic                                                                                                                                                                                                                                                                                                                                     |
| Mainboard Support       | E-ATX, ATX, Micro-ATX, ITX                                                                                                                                                                                                                                                                                                                          |
| Front Access & Controls | Power, Reset , USB 3.0 x 2, Type-C 3.2 Gen 2 x 1, MIC x 1, HD-AUDIO x 1                                                                                                                                                                                                                                                                             |
| Expansion Slots         | 8                                                                                                                                                                                                                                                                                                                                                   |
| 5.25"                   | 1                                                                                                                                                                                                                                                                                                                                                   |
| 3.5" /2.5"              | 8                                                                                                                                                                                                                                                                                                                                                   |
| 2.5"                    | 2                                                                                                                                                                                                                                                                                                                                                   |
| Operating Environment   | Operating Temperature Range<br>10°C - 35°C (50°F - 95°F)<br><br>Non-Operating Temperature Range<br>-40°C - 70°C (-40°F - 158°F)<br><br>Operating Relative Humidity Range<br>8% - 90% (non-condensing)<br><br>Non Operating Relative Humidity Range<br>5% - 95% (non-condensing)                                                                     |
| Recommended support     | 24x7 - 4 hours Response, Next Business Day Call to Resolution CTR<br>24x7 - 4 hours Response, 24 Hours Call to Resolution CTR<br>24x7 - 4 Hours Response, 6 Hours Call to Resolution CTR<br><br>Default support Next Business Day Consulting and deployment offerings are also available. Contact Vantageo representative for the more information. |

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