

# H13SVW-NT (For A+ Server Only)

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WIO UP Server board

## Key Features

- AMD EPYC™ 8004 series Processors
- System on Chip
- Up to 768GB ECC RDIMM, DDR5-4800MHz in 6 DIMM slots
- 2 PCIe 5.0 x16 via Riser Slot 1 PCIe 5.0 x 16 via Riser Slot
- 2x 10GBase-T LAN Ports via Broadcom BCM57416
- Up to 6 USB 3.0 ports(4 rear + 2 via header)
- 3 PCIe 5.0 x8 MCIO connectors
- 8 SATA3 / PCIe 5.0 Hybrid via 2 PCIe 5.0 x8 MCIO
- 6 PWM 4-pin Fans with tachometer status monitoring
- M.2 Interface:** 2 PCIe 3.0 x4 **M.2 Form Factor:** 2280, 22110

## Optimized Servers

- [AS -1015SV-WTNRT \(/en/products/system/wio/1u/as-1015sv-wtnrt\)](/en/products/system/wio/1u/as-1015sv-wtnrt)
- [AS -2015SV-WTNRT \(/en/products/system/wio/2u/as-2015sv-wtnrt\)](/en/products/system/wio/2u/as-2015sv-wtnrt)
- [AS -1115S-FWTRT \(/en/products/system/iot/1u/as-1115s-fwtrt\)](/en/products/system/iot/1u/as-1115s-fwtrt)
- [AS -1115S-FDWTRT \(/en/products/system/iot/1u/as-1115s-fdwtrt\)](/en/products/system/iot/1u/as-1115s-fdwtrt)

## Specifications

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| <b>Product SKUs</b><br><b>MBD-H13SVW-NT</b>   |
| <b>Physical Stats</b><br><b>Form Factor</b><br>Proprietary WIO<br><b>Dimension</b><br>8.15" x 13.05" (20.7cm x 33.15cm)   |
| <b>Processor</b><br><b>CPU</b><br>AMD EPYC™ 8004 series Processors<br>Single Socket SP6 supported, CPU TDP supports Up to 225W TDP<br><b>Core</b><br>Up to 64 cores, 128 threads  |
| <b>System Memory</b><br><b>Memory Capacity</b><br>6 DIMM slots<br>Up to 768GB ECC Registered RDIMM, DDR5-4800MT/s<br><b>Memory Type</b><br>4800 MT/s ECC DDR5<br>Max Memory (1DPC): Up to 768GB<br>4800MT/s ECC DDR5 RDIMM<br><b>DIMM Sizes</b><br>16GB, 32GB, 64GB, 96GB, 128GB<br><b>Memory Voltage</b><br>1.1V<br><b>Error Detection</b><br>Corrects single-bit errors<br>Detects double-bit errors (using ECC memory) |
| <b>On-Board Devices</b><br><b>Chipset</b><br>System on Chip<br><b>Network Controllers</b><br>Dual LAN with Broadcom BCM57416<br>10GBase-T<br>Single LAN with Realtek RTL8211F PHY   |
| <b>Input / Output</b><br><b>USB</b><br>6 USB 3.0 port(s) (4 USB; 2 via header)<br><b>Video Output</b><br>1 VGA port(s)<br><b>TPM</b><br>1 TPM Header<br><b>Others</b><br>3 MCIO (PCIe 5.0 x8) Port(s)<br>2 MCIO (PCIe 5.0 x8/SATA3) Port(s)   |

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| <b>Expansion Slots</b><br><b>PCIe</b><br>1 PCIe 5.0 x16 Right Riser Slot,<br>1 PCIe 5.0 x32 Left Riser Slot<br><b>M.2</b><br>M.2 Interface: 2 PCIe 3.0 x4<br>Form Factor: 2280/22110<br>Key: M-Key  |
| <b>System BIOS</b><br><b>BIOS Type</b><br>AMI 32MB SPI Flash EEPROM<br><b>BIOS Features</b><br>ACPI 6.4<br>SMBIOS 3.5 or later<br>UEFI 2.8<br>Plug and Play (PnP)<br>USB Keyboard support   |
| <b>Management Software</b><br><a href="#">SuperCloud Composer®</a><br>( <a href="#">/en/solutions/management-software/supercloud-composer</a> ),<br><a href="#">Supermicro Server Manager (SSM)</a> .<br>( <a href="#">/en/solutions/management-software/supermicro-server-manager</a> ),<br><a href="#">Supermicro Power Manager (SPM)</a> .<br>( <a href="#">/en/solutions/management-software/supermicro-power-manager</a> ),<br><a href="#">Supermicro Update Manager (SUM)</a> .<br>( <a href="#">/en/solutions/management-software/supermicro-update-manager</a> ),<br><a href="#">Supermicro SuperDoctor® 5 (SD5)</a> .<br>( <a href="#">/en/solutions/management-software/superdoctor</a> ),<br><a href="#">Super Diagnostics Offline (SDO)</a> .<br>( <a href="#">/en/solutions/management-software/super-diagnostics-offline</a> ),<br><a href="#">Supermicro Thin-Agent Service (TAS)</a> .<br>( <a href="#">/en/solutions/management-software/thin-agent-service</a> ),<br><a href="#">SuperServer Automation Assistant (SAA) New!</a><br>( <a href="#">/en/solutions/management-software/superserver-automation-assistant</a> ),<br><a href="#">Plug-ins for 3rd Party Software</a><br>( <a href="#">/en/solutions/management-software/plugins</a> ),<br><a href="#">IPMI Utilities</a><br>( <a href="#">/en/solutions/management-software/ipmi-utilities</a> ). |
| <b>PC Health Monitoring Voltage</b><br>VBAT, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, CPU thermal trip support, 1.8V standby<br><b>LED</b><br>UID/Remote UID<br>BMC/IPMI Heartbeat LED<br><b>Other Features</b><br>RoT<br><b>FAN</b><br>6x 4-pin fan headers (up to 6 fans)   |
| <b>Operating Environment</b><br><b>Operating Temperature Range</b><br>10°C - 35°C (°F - °F)<br><b>Non-Operating Temperature Range</b><br>-40°C - 70°C (°F - °F)<br><b>Operating Relative Humidity Range</b><br>8% - 90% (non-condensing)<br><b>Non Operating Relative Humidity Range</b><br>5% - 95% (non-condensing)   |

Parts List

Standard Parts (Bulk Package)

|             |  |
|-------------|--|
| SATA cable  |  |
| Part Number | CBL-MCIO-12700T4S2-85 • <a href="https://store.supermicro.com/mcio-x8-to-8-sata-2-str-70-cm-cbl-mcio-12700t4s2-85.html">eStore</a><br>( <a href="https://store.supermicro.com/mcio-x8-to-8-sata-2-str-70-cm-cbl-mcio-12700t4s2-85.html">https://store.supermicro.com/mcio-x8-to-8-sata-2-str-70-cm-cbl-mcio-12700t4s2-85.html</a> ). |
| Qty         | 1  |
| Description | MCIO X8/STR to 8 SATA+2 SB,<br>70cm  |

Standard Parts (Retail Package)

|             |  |
|-------------|--|
| SATA cable  |  |
| Part Number | CBL-MCIO-12700T4S2-85 • <a href="https://store.supermicro.com/mcio-x8-to-8-sata-2-str-70-cm-cbl-mcio-12700t4s2-85.html">eStore</a><br>( <a href="https://store.supermicro.com/mcio-x8-to-8-sata-2-str-70-cm-cbl-mcio-12700t4s2-85.html">https://store.supermicro.com/mcio-x8-to-8-sata-2-str-70-cm-cbl-mcio-12700t4s2-85.html</a> ). |
| Qty         | 1  |
| Description | MCIO X8/STR to 8 SATA+2 SB,<br>70cm  |

Optional Parts

|  |   |
|--|---|
| TPM security module (optional, not included) |   |
| Part Number                                  | <a href="/products/accessories/addon/AOM-TPM-9672V.php">AOM-TPM-9672V</a><br>( <a href="/products/accessories/addon/AOM-TPM-9672V.php">/products/accessories/addon/AOM-TPM-9672V.php</a> ). |
| Qty  | 1   |
| Description                                  | SPI capable TPM 2.0 with Infineon<br>9670 controller with horizontal<br>form factor   |

Certain products may not be available in your region

[Gold Series SKUs \(/en/products/gold-series\)](/en/products/gold-series)