

TANK-8700-MPHX

High-Performance AMD Ryzen™ 7000/8000 Series Mobile Processor, Fanless Embedded Computer



Features

» Supported CPUs:

AMD Ryzen™ 7000/8000 Series Mobile Processor

AMD Ryzen™ 5 8645HS 4.3 GHz, (up to 5.0 GHz, 6 Core, TDP 45W)

AMD Ryzen™ 7 8845HS 3.8 GHz, (up to 5.1 GHz, 8 Core, TDP 45W)

AMD Ryzen™ 9 8945HS 4.0 GHz, (up to 5.2 GHz, 8 Core, TDP 45W)

» 2 x 2.5GbE ports

» Multiple USB ports and serial ports

» Multiple M.2 expansions and PCIe expansions

» Three independent display

» Support IPMI remote management

» CE/FCC compliant

Specifications

| Form factor | |
|-----------------|--|
| SBC Form Factor | » CPU: |
| | AMD Ryzen™ 7000/8000 Series Mobile Processor |
| | AMD Ryzen™ 5 8645HS 4.3 GHz, (up to 5.0 GHz, 6 Core, TDP 45W) |
| | AMD Ryzen™ 7 8845HS 3.8 GHz, (up to 5.1 GHz, 8 Core, TDP 45W) |
| | AMD Ryzen™ 9 8945HS 4.0 GHz, (up to 5.2 GHz, 8 Core, TDP 45W) |
| | » Chipset: SoC |
| | » System Memory: 2 x SO-DIMM DDR5 5600 (16GB pre-installed) (up to 96GB) |
| | » Power: DC Jack: 12 ~ 28V DC |
| | » Terminal Block: 12 ~ 28V DC (with ACC Mode) |
| | » Consumption: 19V@3.79 A (AMD Ryzen™ 9 7940HS with 8 GB memory) |
| I/O Interface | |
| I/O Ports | » USB: |
| | 3 x USB 3.2 Gen2 |
| | 3 x USB 2.0 |
| | » Ethernet: |
| | 2 x 2.5 GbE by Realtek 8125B controller |
| | 1 x RJ45 by M.2 IRIS2 Module |
| | » COM Port: |
| | 2 x RS-422/485 (with 2K isolation) (DB9) |
| | 3 x RS-232 (DB9) |
| | » Digital I/O: |
| | 8-bit (4-in/4-out) DB9 (Female) |
| | » Display: |
| | 1 x HDMI |
| | 1 x DP++ |
| | 1 x USB4 (Display + USB 3.2 Gen2) |
| | » Audio: |
| | 1 x Mic |

| | |
|---------------------------------|--|
| | 1 x Line-out |
| | » TPM: |
| | 1 x 20pin TPM connector (Optional TPM-IN03 module) |
| | » Watchdog Timer: |
| | Programmable 1 ~ 255 sec/min |
| Expansion Slots | |
| Expansion Slots | » M.2: |
| | 1 x M.2 M key (2280, PCIe Gen4 x2) |
| | 1 x M.2 A key (2230, PCIe Gen3 x1 & USB 2.0) |
| | 1 x M.2 B Key (3042/52/80, PCIe Gen3 x1 or support IRIS2 module) |
| | » Backplane: |
| | 1 x PCIe Gen4 x8 |
| | 1 x PCIe Gen3 x4 |
| | 1 x PCIe Gen3 x1 (Only supports 3A SKU) |
| | 1 x PCI (Only supports 3B SKU) |
| System | |
| Cooling method / System Fan | Fanless |
| | 4-pin external system fan connector |
| Drive Bays | 2 x 2.5" SATA 6Gb/s HDD/SSD bay |
| Indicator&Buttons | |
| Buttons | 1 x Power button |
| | 1 x Reset button |
| | 1 x AT/ATX switch |
| Indicators | 1 x Power LED (green) |
| | 1 x HDD LED (yellow) |
| Physical Characteristics | |
| Construction | Extruded aluminum alloy |
| Color | |
| Color | Black C + Iron Gray |
| Dimensions | |
| Dimensions | 254.4 x 205 x 127.2 |
| Weight | |
| Weight | 3.96 kg / 5.5 kg |
| Environment | |
| Operating Temperature | -20°C ~ 60°C |
| Humidity | 10% ~ 95% non-condensing |
| Operating Vibration | Half-sine wave shock 5G, 11ms, 100 shocks per axis (With SSD) |
| Operating Shock | MIL-STD-810G 514.6C-1 (With SSD) |
| Safety & EMC | CE/FCC compliant |
| OS Support | |
| OS Support | Microsoft Windows 10 / Windows 11, Linux |

Ordering Information

| | |
|----------------------------|---|
| TANK-8700-MPHX-89AD-3B-R10 | Ruggedized Fanless embedded system with AMD Ryzen™ 9 8945HS 4.0 GHz, (up to 5.2 GHz, 8 Core, TDP 45W), 16GB DDR5 pre-installed memory, PCIe x8/PCIe x4/PCI, HDMI/DP/USB4, 12-28V DC, RoHS |
| TANK-8700-MPHX-89AD-3A-R10 | Ruggedized Fanless embedded system with AMD Ryzen™ 9 8945HS 4.0 GHz, (up to 5.2 GHz, 8 Core, TDP 45W), 16GB DDR5 pre-installed memory, PCIe x8/PCIe x4/PCIe x1, HDMI/DP/USB4, 12-28V DC, RoHS |
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Packing List

| | |
|-----------------------|----------------|
| 1 x Wall mounting kit | 1 x Screw pack |
| 2 x Terminal block | |