

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 Compatible	
OS Compatible	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
TANK-8700-MPHX-87AD-3B-R10	Ruggedized Fanless embedded system with AMD Ryzen™ 7 8845HS 3.8 GHz, (up to 5.1 GHz, 8 Core, TDP 45W), 16GB DDR5 pre-installed memory, PCIe x8/PCIe x4/PCI, HDMI/DP/USB4, 12-28V DC, RoHS
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TANK-8700-MPHX-85AD-3B-R10	Ruggedized Fanless embedded system with AMD Ryzen™ 5 8645HS 4.3 GHz, (up to 5.0 GHz, 6 Core, TDP 45W), 16GB DDR5 pre-installed memory, PCIe x8/PCIe x4/PCI, HDMI/DP/USB4, 12-28V DC, RoHS
TANK-8700-MPHX-85AD-3A-R10	Ruggedized Fanless embedded system with AMD Ryzen™ 5 8645HS 4.3 GHz, (up to 5.0 GHz, 6 Core, TDP 45W), 16GB DDR5 pre-installed memory, PCIe x8/PCIe x4/PCIe x1, HDMI/DP/USB4, 12-28V DC, RoHS

Packing List

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