Système industriel embarqué > Embedded System robuste > Série TANK
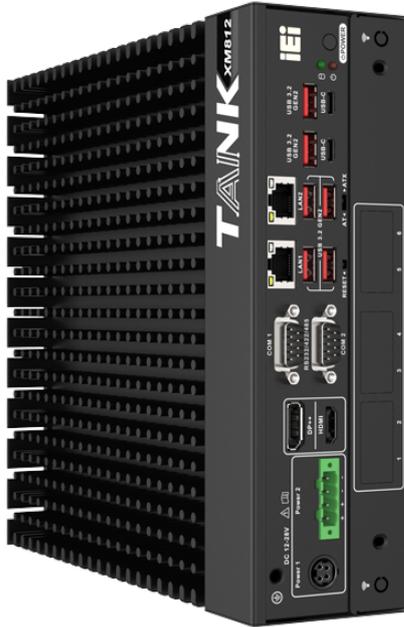
TANK-XM812

High-Performance AMD Ryzen™ 7000/8000 Series AM5 Processor, Fanless Embedded Computer

Features

» Supported CPUs:

AMD Ryzen™ 7000/8000 Series AM5 Processor

AMD Ryzen™ 7 8700G 4.2GHz (up to 5.1GHz, 8-core, 65W)

AMD Ryzen™ 5 8600G 4.3GHz (up to 5.0GHz, 6-core, 65W)

» 2 x 2.5GbE ports

» Multiple USB ports and serial ports

» Multiple internal expansion boards for flexible selection

» Various optional backplanes and chassis

» CE/FCC compliant

Specifications

Form factor	
SBC Form Factor	» CPU:
	AMD Ryzen™ 7000/8000 Series AM5 Processor
	AMD Ryzen™ 7 8700G 4.2GHz (up to 5.1GHz, 8-core, 65W)
	AMD Ryzen™ 5 8600G 4.3GHz (up to 5.0GHz, 6-core, 65W)
	» Chipset:
	AMD B650
	» System Memory:
	2 x SO-DIMM DDR5 5200 (8GB pre-installed) (up to 96GB)
	» Power:
	DC Jack: 12 V~28 V DC
	Terminal Block: 12 V~28 V DC
	Consumption: 12V @ 6.95A (AMD Ryzen™ 7 8700G with 8GB memory)
I/O Interface	
I/O Ports	» USB:
	6 x USB 3.2 Gen2
	» Ethernet:
	2 x RJ-45: 2.5 GbE by Intel® I226V (colay I226LM)
	» COM Port:
	2 x RS-232/422/485
	4 x RS-232
	» Digital I/O:
	12-bit Digital I/O (6-in/ 6-out)
	» Display:
	1 x HDMI
	1 x DP++
	2 x USB Type-C (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 2280 M-key (PCIe Gen4 x4)
	1 x 2230 A-key (USB 2.0 + PCIe Gen3 x1)
	» Backplane: Optional
System	
Cooling method / System Fan	Fanless
	4-pin external system fan connector
Drive Bays	2 x 2.5" SATA 6Gb/s HDD/SSD bay (RAID 0/1 supported)
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
Dimensions	
Dimensions	230.6 x 255 x 68.7
Weight	
Weight	3.18/5 kg
Environment	
Operating Temperature	-20°C ~ 60°C (CPU TDP50W & SSD)
	-20°C ~ 50°C (CPU TDP65W & SSD)
Humidity	10% ~ 95% non-condensing
Operating Vibration	IEC68-2-27 half-sine, 5G, 11ms, 100 shocks (With SSD)
Operating Shock	Random Vibration Mode, MIL-STD-810H 514.8C-I (With SSD)
Safety & EMC	CE/FCC compliant
OS Compatible	
OS Compatible	Microsoft Windows 10 / Windows 11, Linux

Ordering Information

TANK-XM812-87AC-R10	Ruggedized Fanless embedded system with AMD Ryzen™ 5 8700G, (up to 5.1 GHz, 8 Core, TDP 65W), 8GB DDR5 pre-installed memory, PCIe x8/PCIe x4/PCIe x1, HDMI/DP/USB4, 12~28V DC, RoHS
TANK-XM812-85AC-R10	Ruggedized Fanless embedded system with AMD Ryzen™ 5 8600G, (up to 5.0 GHz, 6 Core, TDP 65W), 8GB 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	1 x SATA cable