

TANK-XM811

High-Performance 12th Generation Intel® Core™ Processor Fanless Embedded Computer



Features

» Supported CPUs:

Intel® Core™ i5-12500TE 1.9GHz (up to 4.3GHz, 6-core, 35W TDP)

Intel® Core™ i7-12700TE 1.4GHz (up to 4.6GHz, 12-core, 35W TDP)

Intel® Core™ i9-12900TE 1.1 GHz (up to 4.8 GHz, 16-core, 35W TDP)

» 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:
	12th Gen Intel® Core™ CPU 35/65W
	Intel® Core™ i5-12500TE 1.9GHz (up to 4.3GHz, 6-core, 35W TDP)
	Intel® Core™ i7-12700TE 1.4GHz (up to 4.6GHz, 12-core, 35W TDP)
	Intel® Core™ i9-12900TE 1.1 GHz (up to 4.8 GHz, 16-core, 35W TDP)
	» Chipset:
	R680E
	» System Memory:
	2 x SO-DIMM DDR4 3200 (8GB pre-installed) (up to 64GB)
	» Power:
	DC Jack: 12 V~28 V DC
	Terminal Block: 12 V~28 V DC
	Consumption: 12V @ 8.8A (Intel® Core™ i9-12900TE with 16GB memory)
I/O Interface	
I/O Ports	» USB:
	8 x USB 3.2 Gen 2
	» Ethernet:
	2 x RJ-45:
	2 x 2.5 GbE by Intel® I225V (colay I225LM)
	» 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++
	» TPM:
	Support Intel PTT
	» Watchdog Timer:
	Programmable 1 ~ 255 sec/min
Expansion Slots	
Expansion Slots	» M.2:
	1 x 2280 M-key (PCIe x4)
	1 x 2230 A-key (USB+PCIe x1, supports vPRO)
	» Backplane:
	Optional
System	
Cooling method / System Fan	Fanless
	4-pin external system fan connector
Drive Bays	1 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
Dimensions	
Dimensions	230.6 x 256.04 x 76.2
Weight	
Weight	3.33/3.7 kg
Environment	
Operating Temperature	-20°C ~ 60°C with air flow (CPU TDP35W & SSD)
	-20°C ~ 50°C with air flow (CPU TDP65W & SSD)
Humidity	10% ~ 95% non-condensing
Operating Vibration	Half-sine wave shock 5G, 11ms, 100 shocks per axis (SSD)
Operating Shock	MIL-STD-810G 514.6C-1 (SSD)
Safety & EMC	CE/FCC compliant
OS Support	
OS Support	Microsoft Windows 10 / Windows 11, Linux

Ordering Information

TANK-XM811-i9AD-R10	Ruggedized Fanless Embedded System With Intel® i9, 16GB RAM, 1xHDMI™, 1xDP++, 12~28V DC and RoHS
TANK-XM811-i7AC-R10	Ruggedized Fanless Embedded System With Intel® i7, 8GB RAM, 1xHDMI™, 1xDP++, 12~28V DC and RoHS
TANK-XM811-i5AC-R10	Ruggedized Fanless Embedded System With Intel® i5, 8GB RAM, 1xHDMI™, 1xDP++, 12~28V DC and RoHS

Packing List

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