

TANK-XM810

High-Performance 10 th / 11 th Generation Intel® Core™ Processor Fanless Embedded Computer



Features

» Supported CPUs:

Intel® Core™ i3-10320 3.8 GHz (up to 4.6 GHz, quad-core, 65W TDP)

Intel® Core™ i5-10500TE 2.3 GHz (up to 3.7 GHz, 6-core, 35W TDP)

Intel® Core™ i7-10700TE 2.0 GHz (up to 4.4 GHz, 8-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:
	10/11 th Gen Intel® Core™ CPU 35/65W
	Intel® Core™ i3-10320 3.8 GHz (up to 4.6 GHz, quad-core, 65W TDP)
	Intel® Core™ i5-10500TE 2.3 GHz (up to 3.7 GHz, 6-core, 35W TDP)
	Intel® Core™ i7-10700TE 2.0 GHz (up to 4.4 GHz, 8-core, 35W TDP)
	» Chipset:
	Q470/Q470E
	» System Memory:
	2 x SO-DIMM DDR4 2933 MHz (up to 64GB)
	» Power:
	DC Jack: 12 V~28 V DC
	Terminal Block: 12 V~28 V DC
	Consumption: 12V @ 8A (Intel® Core™ i9-10900TE with 8GB memory)
I/O Interface	
I/O Ports	» USB:
	6 x USB 3.2 Gen 2
	2 x USB 2.0
	» 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: 2 x 2280 M-key (PCIe x2)
	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	3.2/3.5 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-XM810-i7AC-R10	Ruggedized Fanless Embedded System with Intel® i7-10700TE 2.0GHz, (up to 4.4GHz, 8-core, TDP 35W), 8GB DDR4 pre-installed memory, 1xHDMI, 1xDP++, 14~28V DC and RoHS
TANK-XM810-i5AC-R10	Ruggedized Fanless Embedded System with Intel® i5-10500TE 2.3GHz, (up to 3.7GHz, 6-core, TDP 35W), 8GB DDR4 pre-installed memory, 1xHDMI, 1xDP++, 14~28V DC and RoHS
TANK-XM810-i3BC-R10	Ruggedized Fanless Embedded System with Intel® i3-10320 3.8GHz,(up to 4.6GHz, 4-core, TDP 65W), 8GB DDR4 pre-installed memory, 1xHDMI, 1xDP++,12~28V DC and RoHS

Packing List

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