

TANK-880-Q370

High-Performance 8th/9th Generation Intel® Core™ Processor



Features

- » 8th/9th Gen Intel® Core™ processor platform with Intel® Q370 chipset and DDR4 memory
- » Dual independent displays with high resolution support
- » Rich high-speed I/O interfaces
- » On-board internal power connector for providing power to add-on cards
- » Four accessible 2.5" HDD/SSD SATA 6 Gb/s bay (with RAID 0/1/5/10 support)
- » Great flexibility for hardware expansion
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Specifications

Form factor	
SBC Form Factor	» CPU:
	8th Gen Intel® Core™ CPU &
	Intel® Core™ i7-9700TE 1.8GHz (up to 3.8GHz, 8-core, TDP 35W)
	Intel® Core™ i5-9500TE 2.2GHz (up to 3.6GHz, 6-core, TDP 35W)
	» Chipset:
	Intel® Q370
	» System Memory:
	2 x SO-DIMM DDR4 2666/ 2400 (8GB pre-installed) (up to 64GB)
	» Power:
	DC Jack: 9 V~36 V DC
	Terminal Block: 9 V~36 V DC
	Consumption: 19W @ 5.4A (Intel® Core™ i7-9700TE with 8GB memory)
	» Reliability:
	Operating Shock: Half-sine wave shock 5G, 11ms, 100 shocks per axis
	Operating Vibration: MIL-STD-810G 514.6C-1 (SSD)
	Safety/EMC: CE/FCC
I/O Interface	
I/O Ports	» Display:
	1 x HDMI 1.4b (up to 4096 x 2304@30Hz)
	1 x DP (up to 4096 x 2304@60Hz)
	» 6 x USB 3.2 Gen1
	» Ethernet:
	3 x RJ-45
	1 x PCIe GbE by I219 controller
	2 x PCIe GbE by I210 controller
	» COM Port:
	3 x RS-232/422/485 with AFC (DB-9 w/2.5 kV isolation protection)
	» Digital I/O:
	8 bit Digital I/O (4-input / 4-output)
	» Audio:
	1 x Mic in, 1 x Line out
	» TPM:

	1 x TPM 2.0 (optional)
Expansion Slots	
Expansion Slots	» M.2:
	1 x 2230 A key (PCIe x2/ USB2.0)
	2 x 2280 M key (PCIe x2)
	» PCIe Mini:
	1 x Full-size (PCIe/ USB 2.0/ SATA)
	» Backplane:
	1 x PCIe by 16
	1 x PCIe by 1
	2 x PCIe by 4
System	
Cooling method / System Fan	Fanless
Drive Bays	4 x 2.5" HDD/SSD SATA 6Gb/s bay (with RAID 0/1/5/10 support)
Indicator&Buttons	
Buttons	1 x Power Button
	1 x Reset Button
	1 x AT/ATX Switch
Indicators	1 x HDD LED
	1 x Power LED
Physical Characteristics	
Construction	Extruded aluminum alloys
Color	
Color	Black C + Silver
Dimensions	
Dimensions	169 x 255.2 x 225 mm
Weight	
Weight	5.4 kg/8.45 kg
Environment	
Operating Temperature	-20°C ~ 60°C with air flow (SSD)
Humidity	10% ~ 95%, non-condensing
OS Support	
OS Support	Microsoft Windows 10 / Windows 11, Linux

Ordering Information

TANK-880-Q370-i7R/8G/4A-R10	Ruggedized Fanless embedded system with Intel® i7-9700TE 1.8GHz, (up to 3.8GHz, 8-core, TDP 35W), 8GB DDR4 pre-installed memory, 1 x PCIe by 16 & 2 x PCIe by 4 & 1 x PCIe by 1 expansion, HDMI/DP, 9~36V DC, RoHS
TANK-880-Q370-i5R/8G/4A-R10	Ruggedized Fanless embedded system with Intel® i5-9500TE 2.2GHz, (up to 3.6Hz, 6-core, TDP 35W), 8GB DDR4 pre-installed memory, 1 x PCIe by 16 & 2 x PCIe by 4 & 1 x PCIe by 1 expansion, HDMI/DP, 9~36V DC, RoHS

Packing List

1 x Chassis Screw	1 x Wall Mount Bracket
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