

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

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: 19V @ 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

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| 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 |
|-------------------|------------------------|