

# 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)                                       |
| <b>Expansion Slots</b>          |  |
| 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  |
| <b>System</b>                   |  |
| Cooling method / System Fan     | Fanless  |
| Drive Bays                      | 4 x 2.5" HDD/SSD SATA 6Gb/s bay (with RAID 0/1/5/10 support) |
| <b>Indicator&amp;Buttons</b>    |  |
| Buttons                         | 1 x Power Button   |
|                                 | 1 x Reset Button   |
|                                 | 1 x AT/ATX Switch  |
| Indicators                      | 1 x HDD LED  |
|                                 | 1 x Power LED  |
| <b>Physical Characteristics</b> |  |
| Construction                    | Extruded aluminum alloys                                     |
| <b>Color</b>                    |  |
| Color                           | Black C + Silver   |
| <b>Dimensions</b>               |  |
| Dimensions                      | 169 x 255.2 x 225 mm   |
| <b>Weight</b>                   |  |
| Weight                          | 5.4 kg/8.45 kg   |
| <b>Environment</b>              |  |
| Operating Temperature           | -20°C ~ 60°C with air flow (SSD)                             |
| Humidity                        | 10% ~ 95%, non-condensing                                    |
| <b>OS Support</b>               |  |
| 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 |
|-------------------|------------------------|