

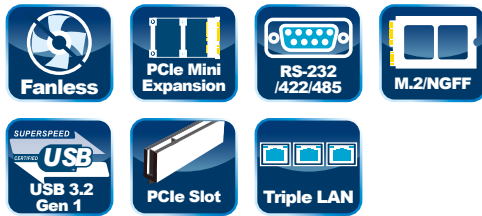
TANK-880-Q370

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



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

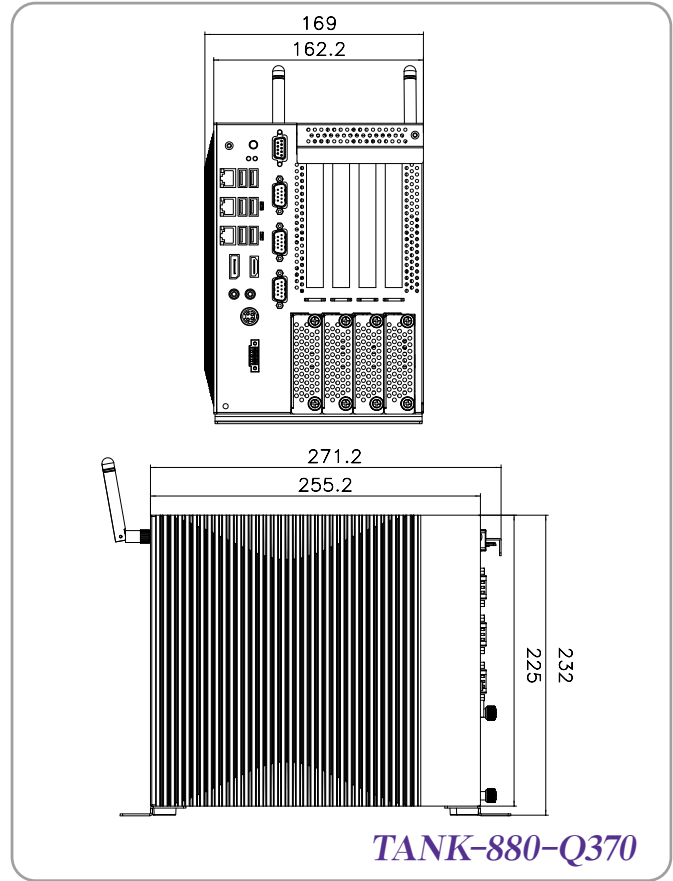
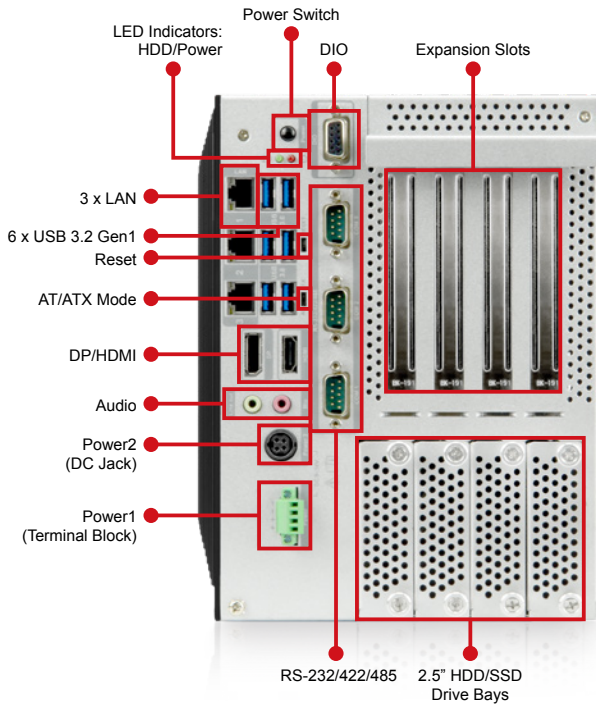


Specifications

| Model Name | | TANK-880-Q370 |
|----------------|-----------------------|---|
| Chassis | Color | Black C + Silver |
| | Dimensions (WxDxH) | 169 x 255.2 x 225 mm |
| | System Fan | Fanless |
| | Chassis Construction | Extruded aluminum alloys |
| Motherboard | CPU | 8 th 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) |
| Storage | Hard Drive | 4 x 2.5" HDD/SSD SATA 6Gb/s bay (with RAID 0/1/5/10 support) |
| I/O Interfaces | Ethernet | 3 x RJ-45 1 x PCIe GbE by I219 controller 2 x PCIe GbE by I210 controller |
| | USB 3.2 Gen 1 (5Gb/s) | 6 |
| | 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) |
| | Display | 1 x HDMI 1.4b, 1 x DP |
| | Audio | 1 x Line-out, 1 x Mic-in |
| | TPM 2.0 | 1 x TPM 2.0 (2 x 10 pin) (optional) |
| | Expansions | PCIe Mini |
| M.2 | | 1 x 2230 A key (PCIe x2/ USB2.0) 2 x 2280 M key (PCIe x2) |
| Backplane | | 1 x PCIe by 16, 1 x PCIe by 1, 2 x PCIe by 4 |
| Power | Power Input | DC Jack: 9 V~36 V DC Terminal Block: 9 V~36 V DC |
| | Power Consumption | 19W @ 5.4A (Intel® Core™ i7-9700TE with 8GB memory) |
| | Internal Power Output | 12V @ up to 10A |
| Reliability | Mounting | Wall mount |
| | Operating Temperature | -20°C ~ 60°C with air flow (SSD), 10% ~ 95%, non-condensing |
| | Storage Temperature | -40°C ~ 85°C with air flow (SSD), 10% ~ 90%, non-condensing |
| | Operating Shock | Half-sine wave shock 5G, 11ms, 100 shocks per axis |
| | Operation Vibration | MIL-STD-810G 514.6C-1 (with SSD) |
| | Weight (Net/Gross) | 5.4 kg/8.45 kg |
| | Safety / EMC | CE/FCC |
| OS | Watchdog timer | Programmable 1 ~ 255 sec/min |
| | Supported OS | Microsoft® Windows® 10 IoT Enterprise/ Linux |

Fully Integrated I/O

Dimensions (Unit: mm)



Ordering Information

| Part No. | Description |
|------------------------------------|--|
| 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 3.6GHz, 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 |

Options

| Part No. | Description |
|-------------------------|---|
| Wi-Fi Module | 27319-000009-RS* Wireless Lan Module; Wireless LAN & Bluetooth M.2 Module; Sparklan; R9701810011; IEEE802.11a/b/g/n/ac; 2.412GHz~2.4835GHz, 5.15GHz~5.85GHz; M.2 2230; ; 3.3V; 22*30*2.15mm; QCNFA364A; QCA6174A-5; 2x2 MIMO; Dual Band; WCBN808A-Q2; CCL; CCL; RoHS |
| Antenna | 32505-000900-100-RS* External Antenna; WLAN; RG 178; 108MM; TANK-700-QM67-R10; PEAK GAIN 2.0DBI; Exceltek; 2.4-2.5GHz/5.15-5.85GHz; REVERSE SMA PLUG; RoHS |
| RF Cable | 32501-004000-100-RS* RF; RF CABLE; LINE DIAMETER:0.81mm; 250MM;; 50Ω; Sparklan; 0-6GHz; VSWR≤1.3; I-PEX MHF-4 Plug; REVERSE SMA JACK; NUT x 1; WASHER x 1;; RoHS |
| Adapter | 63040-010150-700-RS Adapter Power; FSP; FSP150-ABAN3; 9NA1504811; Active PFC; Vin:90 ~ 264VAC; 150W; Dim:75.6*151.3*25.4mm; Plug=6.5mm; Cable=1500mm; Erp(NO LOAD 0.15W); Vout:19VDC; Din 4Pin/lock; CCL; RoHS |
| Power Cord | 32000-000002-RS European power cord |
| TPM 2.0 Module | TPM-IN02-R20 20-pin Infineon TPM2.0 module, software mangement tool, firmware v5.5 |
| System Fan | 31100-000440-RS FAN; +12V; 4PIN; Everflow; 92*92*25mm; 3600RPM; TWO BALL BEARING; LINE LENGTH:180MM; 4.4+/-0.3MM; F129025BU; F129025BUAFW30 aR; AXIAL FAN; WITH FRAME; 73.29CFM; 11.4~12.6V; 44dB; 70000hur; TUV, UL, CE; CCL; RoHS |
| OS: Windows Embedded 10 | TANK-880-Q370-W10E64-H-R10 OS Image with Windows® Embedded Standard 10 E High End 64-bit 2019 for TANK-880-Q370-i7 Series, with DVD-ROM, RoHS |
| OS: Windows Embedded 10 | TANK-880-Q370-W10E64-V-R10 OS Image with Windows® Embedded Standard 10 E Value 64-bit 2019 for TANK-880-Q370-i5 Series, with DVD-ROM, RoHS |

* Each Wi-Fi module needs two antennas and two RF cables to fully support Wi-Fi function.

Packing List

| | |
|-------------------|------------------------|
| 1 x Chassis Screw | 1 x Wall Mount Bracket |
|-------------------|------------------------|