

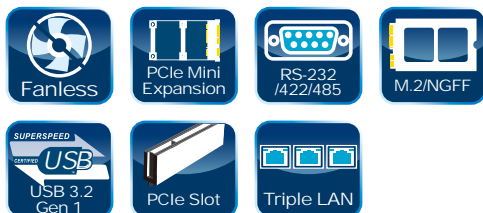
# TANK-880-Q370

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

**New**

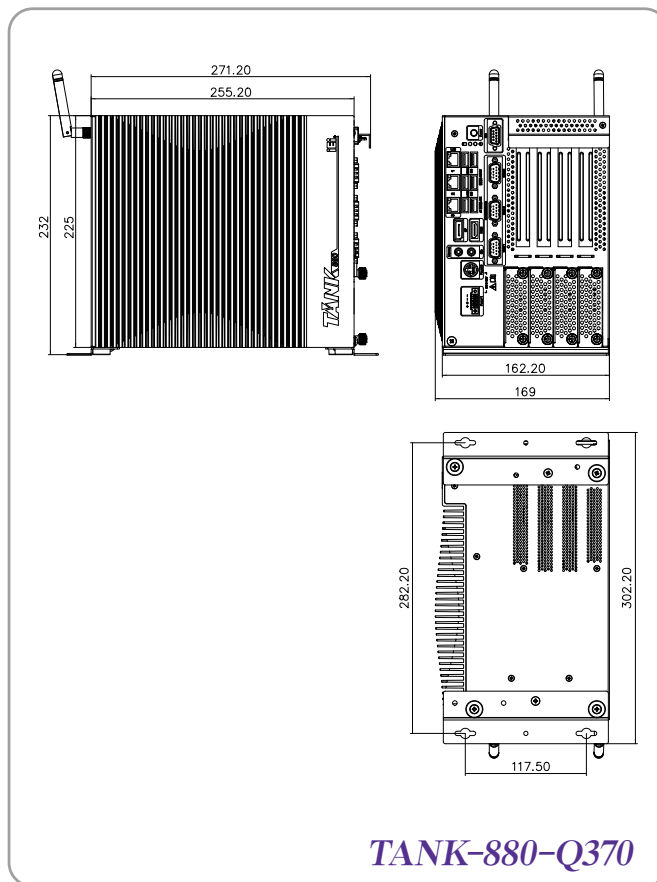
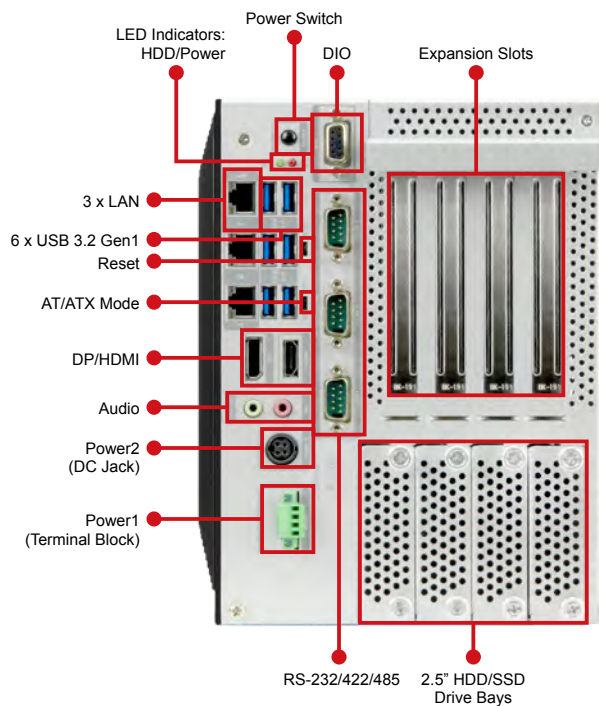
## Features

- 8<sup>th</sup>/9<sup>th</sup> 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) (mm)	169 x 255.2 x 225
	System Fan	Fanless
	Chassis Construction	Extruded aluminum alloys
Motherboard	CPU	8 <sup>th</sup> 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	USB	6 x USB 3.2 Gen1
	Ethernet	3 x RJ-45: 1 x GbE by Intel® I219 2 x GbE by Intel® I210
	COM Port	3 x RS-232/422/485 with AFC (DB-9 with 2.5kV isolation)
	Digital I/O	8-bit Digital I/O (4-in/ 4-out)
	Display	1 x HDMI 1.4b (up to 3840 x 2160@30Hz) 1 x DP (up to 4096 x 2304@60Hz)
	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	1 x Full-size (PCIe/ USB 2.0/ SATA)
	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 ~ 36V DC Terminal Block: 9 ~ 36V 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% ~ 95% non-condensing
	Operating Shock	Half-sine wave shock 5G, 11ms, 100 shocks per axis (SSD)
	Operation Vibration	MIL-STD-810G 514.6C-1 (SSD)
	Weight ( Net/Gross)	5.4 kg/8.45 kg
	Safety / EMC	CE/FCC
Watchdog timer	Programmable 1 ~ 255 sec/min	
OS	Supported OS	Microsoft® Windows® 10 IoT Enterprise/ Linux



## Ordering Information

Part No.	Description
<b>TANK-880-Q370-i7R/8G/4A-R10</b>	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
<b>TANK-880-Q370-i5R/8G/4A-R10</b>	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; Excetek; 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
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