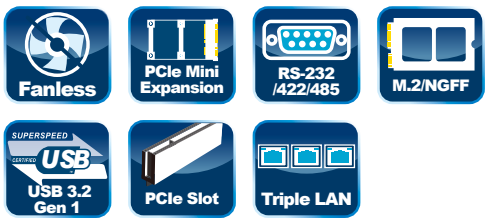
TANK-880-Q370

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

New

Features

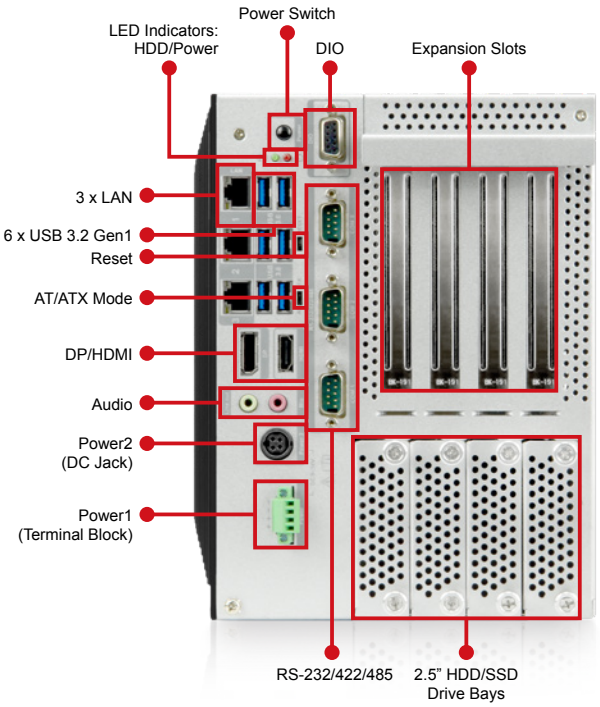
- 8th/9th Gen Intel® Core™ processor platform with Intel® Q370 chipset and DDR4 memory
- Dual independent displays with high resolution support
- Rich high-speed I/O interfaces
- On-board internal power connector for providing power to add-on cards
- Four accessible 2.5” HDD/SSD SATA 6 Gb/s bay (with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



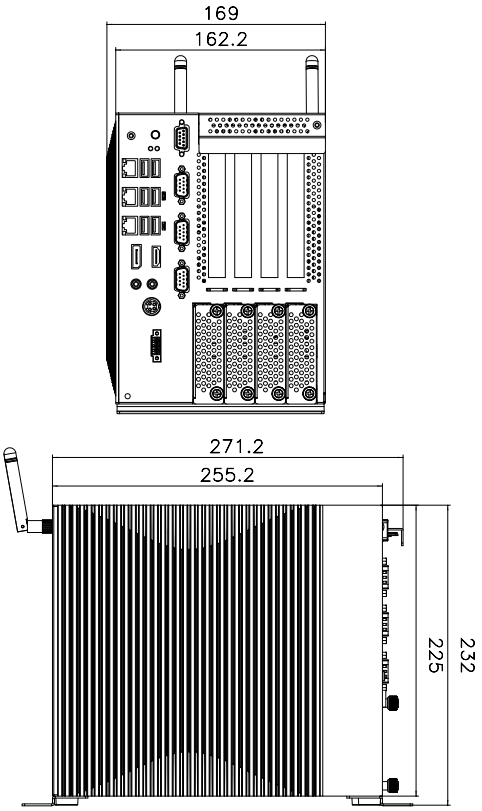
Specifications

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	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)
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 (4-in/4-out)
	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	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 V~36 V DC Terminal Block: 9 V~36 V DC
	Power Consumption	19V @ 3.6A (Intel® Core™ i7-8700T 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
	Watchdog timer	Programmable 1 ~ 255 sec/min
OS	Supported OS	Microsoft® Windows® 10 IoT Enterprise/ Linux

Fully Integrated I/O



Dimensions (Unit: mm)



TANK-880-Q370

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 3.6Hz, 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

Options

Part No.		Description
Wi-Fi Module	27319-000007-RS*	Wireless Lan Module; WiFi+Bluetooth; Sparklan; R970181001; IEEE802.11a/b/g/n/ac; 2.400GHz ~ 2.484GHz, 5.15GHz ~ 5.85GHz; M.2 2230; 3.3V; 22 x 30 x 2.0mm; Qualcomm Atheros QCA6174A-5; 2 x 2 MIMO; Dual Band; WNFQ-258ACN(BT) [W]; 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;F129025BUAFW30aR;AXIAL FAN;WITH FRAME;73.29CFM;11.4~12.6V;44dB;70000hur;TUV,UL,CE;CCL;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