

TANK-871-Q170

High-Performance 6th/7th Generation Intel® Core™ Processor



Features

- » 6th/7th Gen Intel® Core™ processor platform with Intel® Q170 chipset and DDR4 memory
- » Triple independent display with high resolution support
- » Rich high-speed I/O interfaces on one side for easy installation

Specifications

| Form factor | |
|-----------------|---|
| SBC Form Factor | » CPU: Intel 7th Gen Core CPU & Intel® Core™ i7-6700TE (2.4 GHz, quad-core, TDP=35W) Intel® Core™ i5-6500TE (2.3 GHz, quad-core, TDP=35W) » Chipset: Intel® Q170 » System Memory: 2 x 260-pin DDR4 SO-DIMM, pre-installed one 4GB (system max: 32GB) » Power: Input - DC Jack: 9 V~36 V DC, Terminal Block: 9 V~36 V DC Consumption: 19 V@3.68 A (Intel® Core™ i7-6700TE with 8 GB memory) » Reliability: Operating Shock - Half-sine wave shock 5G; 11ms; 100 shocks per axis Operating Vibration - MIL-STD-810G 514.6 C-1 (with SSD) Safety/EMC - CE/FCC |
| I/O Interface | |
| I/O Ports | » USB: 4 x USB 3.0, 4 x USB 2.0 » Ethernet: 2 x RJ-45 LAN1: Intel® I210 PCIe controller LAN2: Intel® I219LM PCIe controller » COM Port: 4 x RS-232 (2 x RJ-45, 2 x DB-9 w/2.5KV isolation protection) 2 x RS-232/422/485 (DB-9) » Digital I/O: 8 bit Digital I/O, 4 bit input / 4 bit output » Display: 1 x VGA (Up to 1920 x 1200@60Hz) 1 x HDMI™/DP (Up to 3840x2160@30Hz / 4096x2304@60Hz) 1 x iDP (optional) » Audio: 1 x Line-out, 1 x Mic-in |

| Expansion Slots | |
|-----------------------------|--|
| Expansion Slots | PCIe Mini: |
| | 1 x Half-size PCIe Mini slot |
| | 1 x Full-size PCIe Mini slot (supports mSATA, colay with SATA) |
| System | |
| Cooling method / System Fan | Fanless |
| Drive Bays | 2 x 2.5" SATA 6Gb/s HDD/SSD bay (RAID 0/1 support) |
| Indicator&Buttons | |
| Buttons | 1 x Power Button |
| | 1 x Reset Button |
| | 1 x AT/ATX Switch |
| | 1 x ACC Mode |
| Physical Characteristics | |
| Construction | Extruded aluminum alloys |
| Color | |
| Color | Black C + Silver |
| Dimensions | |
| Dimensions | 82.2 x 255.2 x 204 (WxDxH) (mm) |
| Weight | |
| Weight | 3.5 kg/4.5 kg |
| Environment | |
| Operating Temperature | i7-6700TE -20°C ~ 45°C with air flow (SSD) |
| | i5-6500TE -20°C ~ 60°C with air flow (SSD) |
| Humidity | 10% ~ 95%, non-condensing |

Ordering Information

| | |
|-------------------------|---|
| TANK-871-Q170-i7/4G-R11 | Ruggedized Fanless embedded system with Intel® Core i7-6700TE 2.4GHz, (up to 3.4 GHz, Quad Core, TDP 35W), 4GB DDR4 pre-installed memory, VGA/HDMI+DP/iDP, 9~36V DC, Powder paint, RoHS |
| TANK-871-Q170-i5/4G-R11 | Ruggedized Fanless embedded system with Intel® Core i5-6500TE 2.3GHz, (up to 3.3 GHz, Quad Core, TDP 35W), 4GB DDR4 pre-installed memory, VGA/HDMI+DP/iDP, 9~36V DC, Powder paint, RoHS |

Packing List

| | |
|-------------------|----------------------|
| 1 x Chassis Screw | 1 x Mounting Bracket |
|-------------------|----------------------|