

## 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:<br>Intel 7th Gen Core CPU &<br>Intel® Core™ i7-6700TE (2.4 GHz, quad-core, TDP=35W)<br>Intel® Core™ i5-6500TE (2.3 GHz, quad-core, TDP=35W)<br>» Chipset: Intel® Q170<br>» System Memory:<br>2 x 260-pin DDR4 SO-DIMM, pre-installed one 4GB (system max: 32GB)<br>» Power:<br>Input - DC Jack: 9 V~36 V DC, Terminal Block: 9 V~36 V DC<br>Consumption: 19 V@3.68 A (Intel® Core™ i7-6700TE with 8 GB memory)<br>» Reliability:<br>Operating Shock - Half-sine wave shock 5G; 11ms; 100 shocks per axis<br>Operating Vibration - MIL-STD-810G 514.6 C-1 (with SSD)<br>Safety/EMC - CE/FCC |
| I/O Interface   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| I/O Ports       | » USB: 4 x USB 3.0, 4 x USB 2.0<br>» Ethernet: 2 x RJ-45<br>LAN1: Intel® I210 PCIe controller<br>LAN2: Intel® I219LM PCIe controller<br>» COM Port:<br>4 x RS-232 (2 x RJ-45, 2 x DB-9 w/2.5KV isolation protection)<br>2 x RS-232/422/485 (DB-9)<br>» Digital I/O: 8 bit Digital I/O, 4 bit input / 4 bit output<br>» Display:<br>1 x VGA (Up to 1920 x 1200@60Hz)<br>1 x HDMI™/DP (Up to 3840x2160@30Hz / 4096x2304@60Hz)<br>1 x iDP (optional)<br>» 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                 |                                                                |
| 工作温度                        | i7-6700TE -20°C ~ 45°C with air flow (SSD)                     |
|                             | i5-6500TE -20°C ~ 60°C with air flow (SSD)                     |
| 相对湿度                        | 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 |
|-------------------|----------------------|