

TANK-870e-H110

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



Features

- » 6th/7th Gen Intel® Core™ processor platform with Intel® H110 chipset and DDR4 memory
- » Support dual display VGA+HDMI™
- » On-board internal power connector for providing power to add-on cards
- » Great flexibility for hardware expansion

Specifications

Form factor	
SBC Form Factor	» CPU:
	Intel 7th Gen Core CPU &
	Intel® Core™ i5-6500TE (2.3 GHz, quad-core, TDP=35W)
	» Chipset: Intel® H110
	» System Memory:
	2 x 260-pin DDR4 SO-DIMM, one 4 GB pre-installed (system max: 32GB)
	» Power:
	Input - DC Jack: 9 V~36 V DC, Terminal Block: 9 V~36 V DC
	Consumption: 19 V@3.44 A (Intel® Core™ i7-6700TE with 8 GB memory)
	Internal Connector: 5V@3A or 12V@3A
	» Reliability:
	Operating Shock - Half-sine wave shock 5G, 11ms, 100 shocks per axis
	Non-Operating Shock - Half-sine wave shock 15G, 11ms, 100 shocks per axis
	Operating Vibration - MIL-STD-810G 514.6C-1 (with SSD)
	Non-Operation Vibration - Half-sine mode IEC-60068-2-06
	Safety/EMC - CE/FCC
I/O Interface	
I/O Ports	» USB: 4 x USB 3.0
	» Ethernet:
	2 x RJ-45 PCIe GbE by RTL8111G controller
	» COM Port:
	2 x RS-232/422/485 (DB-9, w/ 2.5kV isolation protection)
	» Display:
	1 x VGA (Up to 1920 x 1200@60Hz)
	1 x HDMI™ 1.4 (up to 3840x2160@30Hz)
	» Audio: 1 x Line-out, 1 x Mic-in
Expansion Slots	

Expansion Slots	» PCIe Mini:
	1 x Full-size PCIe Mini slot
	1 x Full-size PCIe Mini slot (supports mSATA, colay with SATA)
	» Backplane:
	3A: 1 x PCIe x16, 2 x PCI
	3B: 1 x PCIe x16, 1 x PCIe x4, 1 x PCI
System	
Cooling method / System Fan	Fanless
Drive Bays	2 x 2.5" SATA 6Gb/s HDD/SSD bay
Indicator&Buttons	
Buttons	1 x Power Button
	1 x Reset Button
	1 x AT/ATX Switch
Physical Characteristics	
Construction	Extruded aluminum alloys
Color	
Color	Dark silver purple + Silver
Dimensions	
Dimensions	132.6 x 255.2 x 190 (WxDxH) (mm)
Weight	
Weight	4.2 kg/6.3 kg
Environment	
Operating Temperature	i7-6700TE -20°C ~ 50°C with air flow (SSD)
	i5-6500TE -20°C ~ 60°C with air flow (SSD)
Humidity	10% ~ 95%, non-condensing

Ordering Information

TANK-870e-H110-i5/4G/3B-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, 1 x PCIe by 16 & 1 x PCIe by 1 & 1 x PCI expansion, VGA/HDMI™, 9~36V DC, RoHS
TANK-870e-H110-i5/4G/3A-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, 1 x PCIe by 16 & 2 x PCI expansion, VGA/HDMI™, 9~36V DC, RoHS

Packing List

1 x Chassis Screw	1 x Mounting Bracket
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