

# TANK-860-HM86

Intel® HM86 mobile solution. Fanless wide temperature embedded system



## Features

- » Intel® HM86 chipset + 4th generation Intel® Core™ CPU
- » Great flexibility of expansion slots
  - 2-slot model: 2 x PCIe by 16, 1 x PCIe Mini slot
  - 4-slot model: 2 x PCIe by 16, 2 x PCI, 2 x PCIe Mini slot
  - 6-slot model: 1 x PCIe by 16, 2 x PCIe by 4, 3 x PCI, 2 x PCIe Mini slot
- » IPMI function for remote control management
- » Three independent video outputs support high resolution
- » 2 x 2.5" SATA HDD bay design fulfills high storage demand

## Specifications

Form factor	
SBC Form Factor	CPU:
	Intel® Core™ i5-4400E 2.7 GHz
	Chipset: Intel® HM86
	System Memory
	2 x 204-pin DDR3 SO-DIMM slot.
	Pre-installed one 4 GB SO-DIMM(system max: 16 GB)
I/O Interface	
I/O Ports	4 x USB 3.0
	2 x USB 2.0
	Ethernet:
	2 x RJ-45
	1 x PCIe GbE by Intel® I210
	1 x PCIe GbE by Intel® I217LM
	COM Port:
	4 x RS-232 (DB-9, two with isolation)
	2 x RS-422/485 (RJ-45)
	Digital I/O: 8-bit digital I/O, 4-bit input/4-bit output
	Display:
	1 x VGA, 1 x DVI-I, 1 x DisplayPort
	Resolution
	VGA: Up to 1920 x 1200@60Hz
	DVI-I: Up to 2500 x 1600@60Hz
	Displayport: Up to 2500 x 1600@60Hz
	Audio:
	1 x Line-out, 1 x Mic-in
	Wireless 1 x 802.11b/g/n (optional)
Expansion Slots	
Expansion Slots	PCI/PCIe

	2 A: Two PCIe x8 (physical PCIe x16 slot)
	4 A: Two PCIe x8 (physical PCIe x16 slot) +2 x PCI
	6 A: One PCIe x8 (physical PCIe x16 slot) +two PCIe x4 + three PCI
	PCIe Mini
	2A: 1 x Full-size (co-lay mSATA)
	4A: 1 x Full-size (co-lay mSATA) +1 x Full-size (on backplane)
	6A: 1 x Full-size (co-lay mSATA) +1 x Full-size (on backplane)
<b>System</b>	
Cooling method / System Fan	Fanless
Drive Bays	2 x 2.5" SATA 6Gb/s HDD/SSD bay
<b>Color</b>	
Color	Black C + Silver
<b>Dimensions</b>	
Dimensions	2 slot: 121.5 x 255.2 x 205
	4 slot: 154.8 x 255.2 x 205
	6 slot: 195.4 x 255.2 x 205
<b>Environment</b>	
Operating Temperature	-20°C ~ 60°C with air flow (SSD)
Humidity	5% ~ 95%, non-condensing

## Ordering Information

TANK-860-HM86i-i5/4G/2A-R10	Ruggedized Fanless embedded system , Intel Core i5 dual-core i5-4400E 2.7GHz, TDP 37W, 4GB DDR3 pre-installed memory , 2 x PCIe by 8 expansion, VGA/DVI-I/Displayport, iRIS-2400 optional, 9~36V DC, RoHS, R10
TANK-860-HM86i-i5/4G/6A-R10	Ruggedized Fanless embedded system , Intel Core i5 dual-core i5-4400E 2.7GHz, TDP 37W, 4GB DDR3 pre-installed memory , 1 x PCIe by 8 / 2 x PCIe by 4 / 3 x PCI expansion, VGA/DVI-I/Displayport, iRIS-2400 optional, 9~36V DC, RoHS, R10
TANK-860-HM86i-i5/4G/4A-R10	Ruggedized Fanless embedded system , Intel Core i5 dual-core i5-4400E 2.7GHz, TDP 37W, 4GB DDR3 pre-installed memory , 2 x PCIe by 8 / 2 x PCI expansion, VGA/DVI-I/Displayport, iRIS-2400 optional, 9~36V DC, RoHS, R10

## Packing List

1 x Chassis Screw	1 x Mounting Bracket
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