

# TANK-760-HM86

- Intel® HM86 mobile solution
- Three independent video outputs

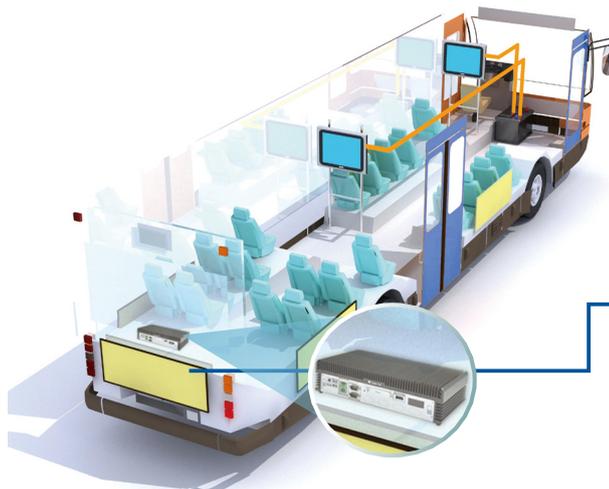
## Features

- Intel® Core™ i7-4700EQ 2.4 GHz qual-core processor
- Intel® Core™ i5-4400E 2.7 GHz dual-core processor
- Intel® Celeron® 2000E 2.2 GHz dual-core processor
- One CFast socket
- Support three independent video outputs
- Built-in two 2.5" SATA 6Gb/s HDD bays
- 9 V~36 V DC input
- Support IEI iRIS-2400 (IPMI 2.0 compliant)



## Vehicle Control Center

The TANK-760 is a platform based on the 4th generation Intel® Core™ i5 or Celeron® processor (codenamed Haswell) and the Intel® HM86 chipset. The TANK-760 is equipped with an abundant of I/O ports and supports a wide range of operating temperature. The TANK-760 can be used as a control center for in-vehicle application, such as buses or trucks. With dual CAN-bus port, more peripheral devices can be connected for vehicle applications.



## Flexible Expansion Design

The TANK-760 is designed with four D-sub knockout holes and three PCIe Mini card slots for installing I/O expansion cards, such as video/audio capture cards or COM port cards.

### PCIe Mini Video/Audio Capture Card

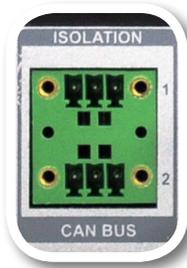


## Dual 2.5" SATA HDD/SSD Bay

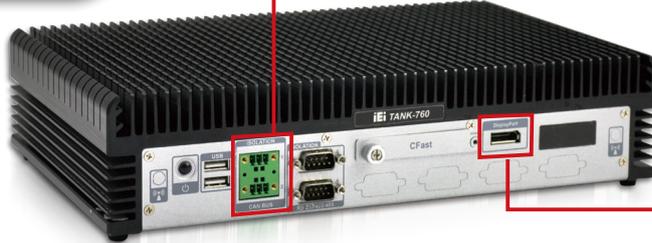
With two 2.5" SATA HDD/SSD bays, users can fulfill large storage requirement and use it as a terminal for data acquisition. The easy-to-assemble design reduces user fatigue in system installation.



### Dual CAN-Bus Port

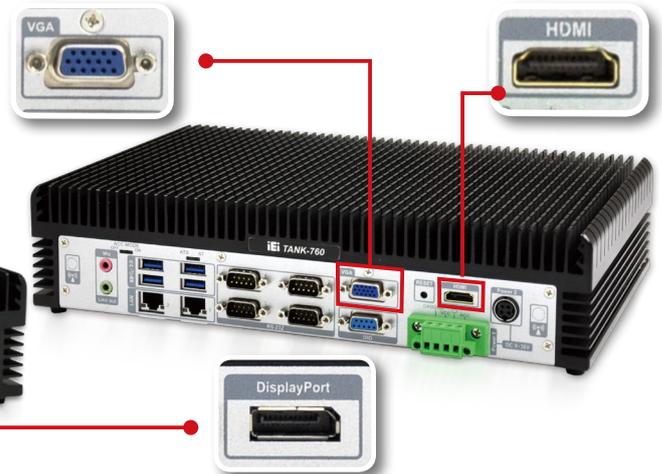


Controller Area Network (CAN or CAN-bus) is a vehicle bus standard designed to communicate or detect errors with each other within a vehicle, industrial automation and medical equipment. The TANK-760 has two CAN-bus interfaces, which allow customers to connect more devices in vehicle application.



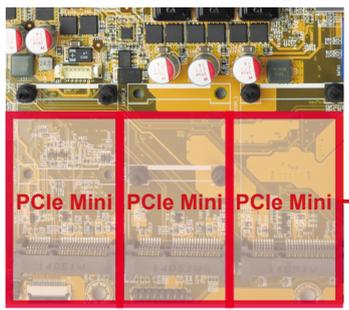
### Triple Display

The TANK-760 contains VGA, DisplayPort and HDMI video outputs, which can be applied to multi-display application and support high Full HD video quality.



### Three PCIe Mini

There are lots of different PCIe Mini cards for various applications, such as Wi-Fi, 3G and GPS cards. With three PCIe Mini cards, customers can add extra functions via PCIe Mini cards to apply the TANK-760 in different environments.



Full-size PCIe Mini

### Military Compliant

The TANK-760 is compliant with MIL-STD-810F standard for shock and vibration. The MIL-STD-810 test series is approved for use by all departments and agencies of the United States Department of Defense (DoD).



### E-Mark Compliant



E-Mark is a commonly recognized certificate in the automobile industry in Europe. E-mark is from the Economic Commission for Europe (Economic Commission of Europe, referred to as ECE) and including 28 countries currently. It is compulsory for vehicles application.

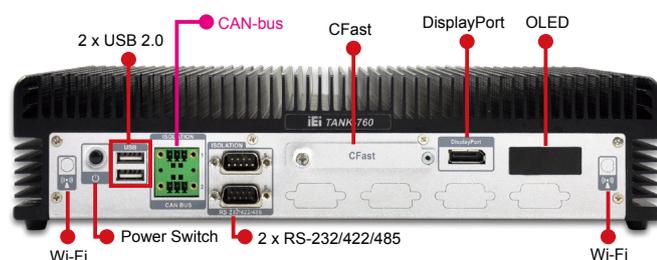
### iRIS Solution



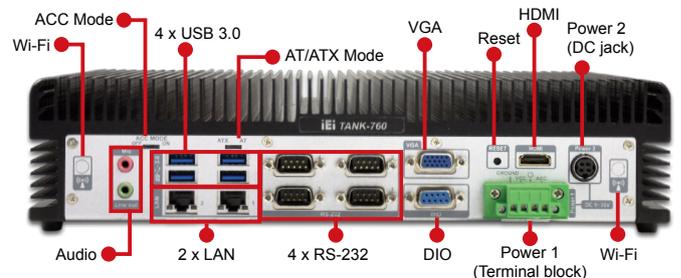
By installing the IEI iRIS-2400 module, the TANK-760 is capable to complete your IoT application through the advanced remote control features, such as power management and control, remote KVM for device status monitoring, sending active alerts and warning messages by e-mail or SMS.

### Fully Integrated I/O

#### Front View



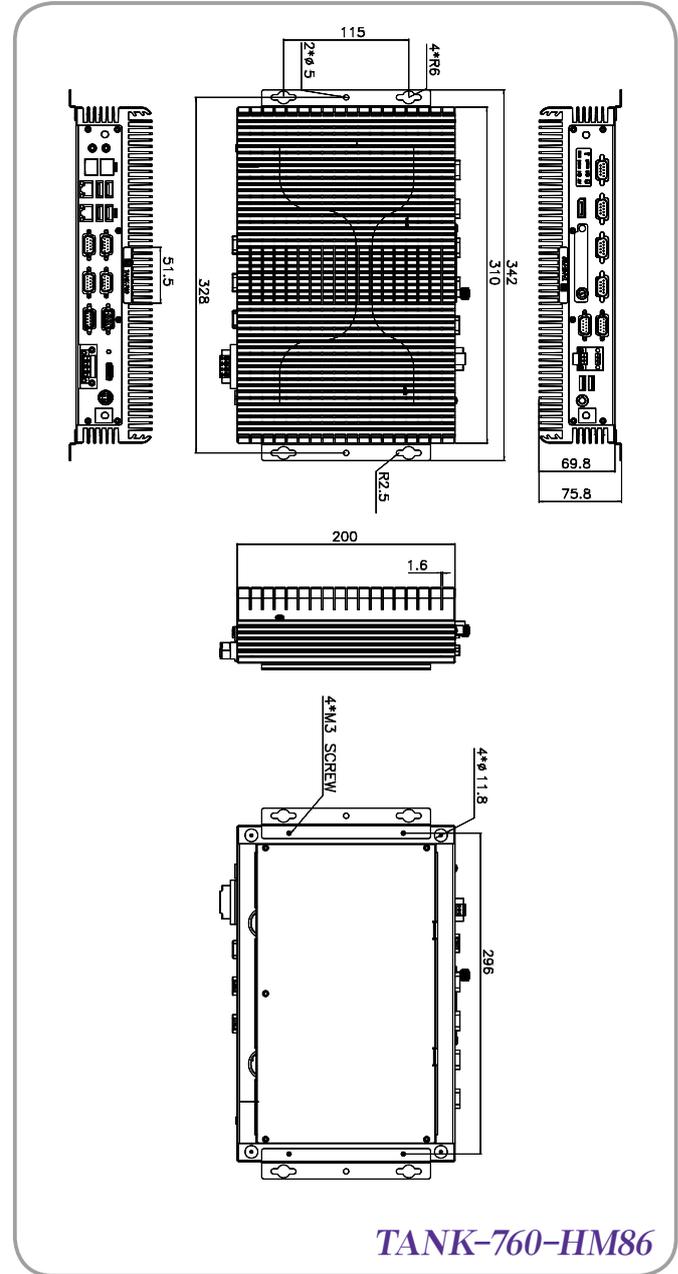
#### Rear View



## Specifications

Model Name		TANK-760-HM86	
Chassis	Color	Black C + Silver	
	Dimensions (WxDxH) (mm)	310 x 200 x 69.8	
	System Fan	Fanless	
Motherboard	Chassis Construction	Extruded aluminum alloys	
	CPU	Intel® Core™ i7-4700EQ 2.4 GHz Intel® Core™ i5-4400E 2.7 GHz Intel® Celeron® 2000E 2.2 GHz	
	Chipset	Intel® HM86	
IRIS Module	System Memory	2 x 204-pin DDR3 SO-DIMM, one 4GB pre-installed (system max: 16 GB)	
	IRIS Solution	1 x iRIS-2400 (optional)	
Storage	Hard Drive	2 x 2.5" SATA 6Gb/s HDD/SSD bay	
	CF Card/CFast	1 x CFast	
I/O Interfaces	USB 3.0	4	
	USB 2.0	2	
	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, with isolation) 2 x RS-232/422/485 (DB-9, with isolation)	
	Digital I/O	8-bit digital I/O, 4-bit input/4-bit output	
	CAN-bus	2 x Phoenix terminal block with isolation	
	Display	1 x VGA, 1 x HDMI, 1 x DisplayPort	
	Resolution	VGA: Up to 1920 x 1200@60Hz HDMI: 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)	
	Other	Reserved IO window for PCIe Mini card expansion	
	Expansions	PCIe Mini	1 x Full-size PCIe Mini slot 1/2 1 x Full-size PCIe Mini slot 3 (supports mSATA, colay with SATA)
		Power Input	DC Jack: 9 V~36 V DC Terminal Block: 9 V~36 V DC
	Power	Power Consumption	19 V@3.2 A (Intel® Core™ i5 i5-4400E with 4 GB memory)
Mounting		Wall mount	
Reliability	Operating Temperature	-20°C ~ 70°C with air flow (SSD) for i5-4400E & 2000E -20°C ~ 50°C with air flow (SSD) for i7-4700EQ	
	Operating Shock	Half-sine wave shock 5G, 11ms, 3 shocks per axis	
	Operating Vibration	MIL-STD-810F 514.5C-2 (with SSD)	
	Weight (Net/Gross)	4.2 kg/6.9 kg	
	Safety/EMC	CE/FCC	
OS	Supported OS	Microsoft® Windows® 8 Embedded, Microsoft® Windows® Embedded Standard 7 E	

## Dimensions (Unit: mm)



## Ordering Information

Part No.	Description
TANK-760-HM86i-i7/4G-R10	Fanless embedded system, Intel® Core™ i7-4700EQ Quad core 2.4GHz, TDP 47W, 4GB DDR3 pre-installed memory, VGA/HDMI/Displayport, iRIS-2400 optional, 9~36V DC, RoHS, R10
TANK-760-HM86i-i5/4G-R10	Fanless embedded system, Intel® Core™ i5 dual-core i5-4400E 2.7 GHz, TDP 37W, 4GB DDR3 pre-installed memory, VGA/HDMI/DisplayPort, iRIS-2400 optional, 9 V~36 V DC, RoHS, R10
TANK-760-HM86i-C/4G-R10	Fanless embedded system, Intel® Celeron® dual-core 2000E 2.2 GHz, TDP 37W, 4GB DDR3 pre-installed memory, VGA/HDMI/DisplayPort, iRIS-2400 optional, 9 V~36 V DC, RoHS, R10
TANK-760-QGW-i5/8G-R10	Fanless embedded system, Intel® Core™ i5 dual-core i5-4400E 2.7 GHz, TDP 37W, 2 x 4GB DDR3 pre-installed memory, VGA/HDMI/DisplayPort, iRIS-2400 optional, with QTS-Gateway, 9 V~36 V DC, RoHS

## Options

Part No.	Description
iRIS-2400-R10	IPMI 2.0 adapter card with AST2400 BMC chip for DDR3 SO-DIMM socket interface
EMB-WIFI-KIT01-R11	1T1R Wi-Fi module kit for embedded system, IEEE802.11b/g/n, 1 x Wi-Fi module, 2 x RF cable, 2 x Antenna, RoHS
TANK-760-HM86-WES7E-R10	OS Image with Windows® Embedded Standard 7 E for TANK-760 HM86 Series, CD-ROM, RoHS

## Packing List

1 x Utility CD	1 x Power Adapter	1 x Chassis Screw
1 x One Key Recovery CD	1 x Power Cord	1 x Mounting Bracket