TANK-801-BT

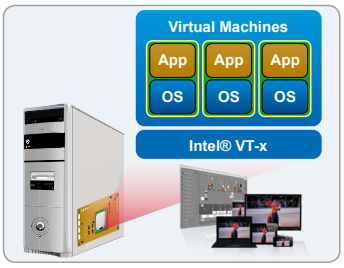
- *Intel® Celeron® J1900 2 GHz, 10W*
- *Versatile three different backplane types*

Features

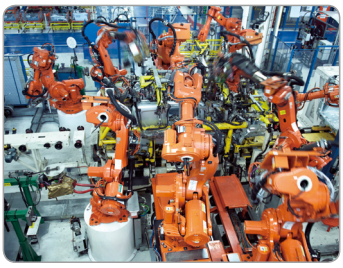
- **Intel® Celeron® J1900 2 GHz, 10W**
- **16-bit digital I/O, 8-bit input/8-bit output**
- **1 x DVI-I**
  1 x DisplayPort
- **Various expansion type:**
  - » 3A : One PCIe x1 + Two x PCI
  - » 3B: Two PCIe x1 + One x PCI
  - » 3C: Three x PCI
- **Dual DC power input**

5 YEARS 5-YEAR SUPPLY GUARANTEE

Enhanced Visual Experience



Support Intel® Virtualization Technology



Automation

Video HD Technology
Spectacular HD Playback

Intel® Bay Trail Solution

Intel® Bay-Trail SoC (system on chip) integrates with CPU and graphics. With the Gen 7 graphics and the DX11 and full HD support, the TANK-801-BT is a good solution for visual application.

■ Intel® Bay Trail Platform Transition

Key Platform Transition

Intel® Celeron® Processor 807E/847E/1007UE

Intel® Atom™ Processor D2xxx/N2xxx

SoC platform ***(2 chip to 1 chip)***

22nm processor technology

NEW:
Quad-core CPU with Intel® Turbo Burst Technology

NEW:
Intel® Gen7 Graphics (based on 3rd generation Intel® Core™ processor with Intel® HD Graphics 4000) with HW encode support

Bay Trail SoC	Bay Trail
Productivity Workload	Up to **2x**
3D Performance	Up to **3x**

■ Intel® Bay Trail Graphics and Media Features

3D Graphics	DX11.1, OGL 4.0, OGL ES 2.0, OVG 1.1
Video Decode	H.264, MPEG2, MPEG4, VC1/WMV9, VP8 up to 1080p decode
Video Encode	H.264, MPEG2

Diversified Expansion Interfaces

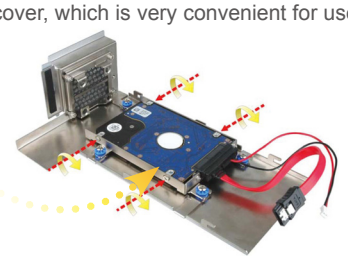
The TANK-801 series has three different expansion options on PCI and PCIe slot selection. Users can choose the suitable model for their application.

Backplane	TANK-801	
	Slot type	Signal
HPE-3S6 (2P1E)	PCI	PCI
	PCIe x16	PCIe x16
HPE-3S7 (1P2E)	PCI	PCI
	PCIe x4	PCIe x1
	PCIe x16	PCIe x1
HPE-3PCI	PCI	PCI

Easy of Installation

Users can easily install SO-DIMM, PCIe Mini cards and expansion cards by removing the TANK-801's top cover. A 2.5'' SATA HDD/SSD bay is located on the top cover, which is very convenient for users to maintain the system.

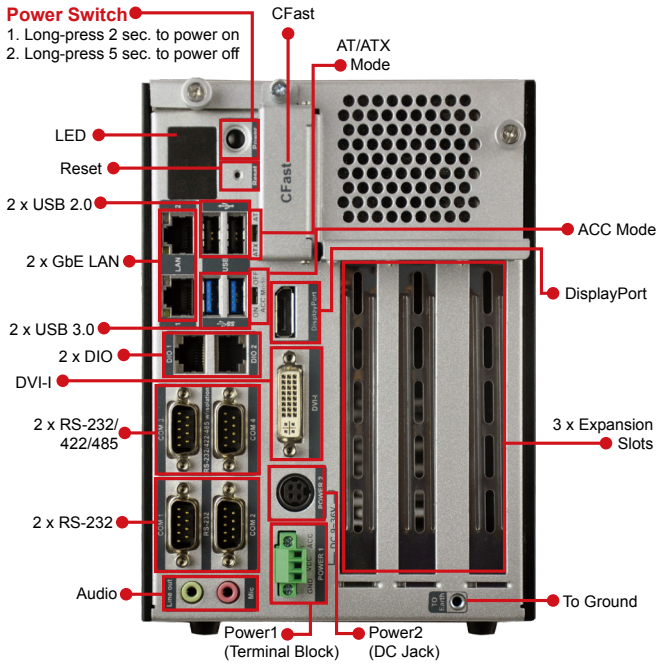
2.5" SATA 6Gb/s HDD/SSD bay



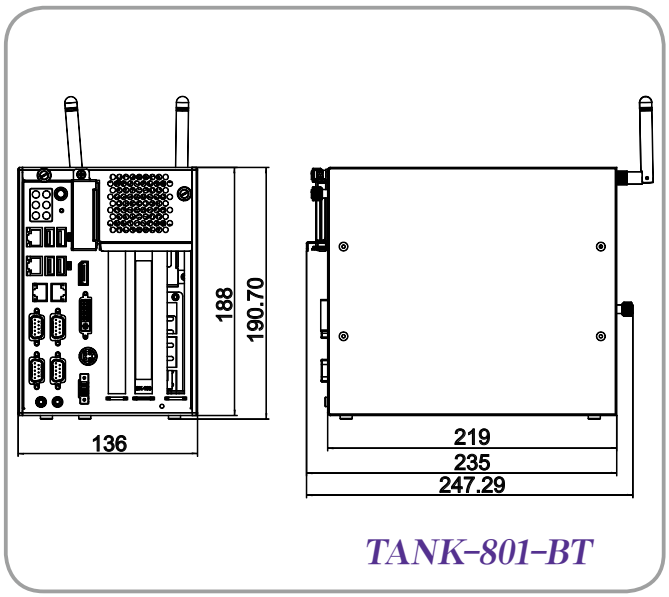
Specifications

Model Name		TANK-801-BT
Chassis	Color	Black C + Silver
	Dimensions (WxDxH) (mm)	136 x 219 x 188
	System Fan	Fanless
	Chassis Construction	Extruded aluminum alloys
Motherboard	CPU	Intel® Celeron® J1900 2 GHz
	Chipset	SoC
	System Memory	1 x 204-pin DDR3L SO-DIMM, 2GB pre-installed (system max: 8 GB)
IPMI	iRIS Solution	1 x iRIS-2400 (optional)
Storage	Hard Drive	1 x 2.5" SATA 3Gb/s HDD/SSD bay
	CF Card/CFast	1 x CFast
I/O Interfaces	USB 3.0	2
	USB 2.0	2
	Ethernet	2 x RJ-45 1 x PCIe GbE by Intel® I210 1 x PCIe GbE by Intel® I211
	COM Port	2 x RS-232 (DB-9) 2 x RS-232/422/485 (DB-9, with isolation)
	Digital I/O	16-bit digital I/O, 8-bit input/8-bit output
	Display	1 x DisplayPort, 1 x DVI-I
	Resolution	DisplayPort: Up to 2560 x 1600 MHz DVI-I: Up to 2560 x 1600 MHz
	Audio	1 x Line-out, 1 x Mic-in
	Wireless	1 x 802.11b/g/n (optional)
Expansions	PCI/PCIe	3A: One PCIe x1 + Two x PCI 3B: Two PCIe x1 + One x PCI 3C: Three x PCI
	PCIe Mini	1 x Full-size PCIe Mini
Power	Power Input	DC Jack: 9 V~36 V DC Terminal Block: 9 V~36 V DC
	Power Consumption	19 V@1.8 A (Intel® Celeron® J1900 with 2 GB DDR3 memory)
Reliability	Mounting	Wall mount
	Operating Temperature	-20°C ~ 60°C with air flow (SSD), 5% ~ 95%, non-condensing
	Storage Temperature	-40°C ~ 85°C with air flow (SSD), 5% ~ 90%, non-condensing
	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)	2.8 kg/4.3 kg
	Safety/EMC	CE/FCC
OS	Supported OS	Microsoft® Windows® 8 Embedded, Microsoft® Windows® Embedded Standard 7 E

Fully Integrated I/O



Dimensions (Unit: mm)



Ordering Information

Part No.	Description
TANK-801-BTi-J1/2G/3A-R11	Fanless embedded system with two PCI and one PCIe x1 expansion, Intel® Bay-Trail J1900 2 GHz, TDP 10W, 2GB DDR3L pre-installed memory, 1 x DVI-I, 1 x DisplayPort, iRIS-2400 optional, 9 V~36 V DC, RoHs
TANK-801-BTi-J1/2G/3B-R11	Fanless embedded system with one PCI and two PCIe x1 expansions, Intel® Bay-Trail J1900 2 GHz, TDP 10W, 2GB DDR3L pre-installed memory, 1 x DVI-I, 1 x DisplayPort, iRIS-2400 optional, 9 V~36 V DC, RoHs
TANK-801-BTi-J1/2G/3C-R11	Fanless embedded system with three PCI expansion, Intel® Bay-Trail J1900 2 GHz, TDP 10W, 2 GB DDR3L pre-installed memory, 1 x DVI-I, 1 x DisplayPort, iRIS-2400 optional, 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
19FFD124010HBNBG-000002-RS	FAN, +12V DC, 4PIN, 31100-000377-RS, STANDARD, FD124010HB-NBG(2W7G), CABLE L:250mm, MOLEX 5051-04P P=2.54, CCL, RoHS
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
TPM-IN01-R20	20-pin INFINEON TPM Module,S/W managementTool,Firmware V4.4
TANK-801-BT-WES7E-R10	OS Image with Windows® Embedded Standard 7 E for TANK-801 Series, CD-ROM, RoHS

Packing List

1 x Utility CD	1 x Power Adapter (With PSE & ErP Certified)	1 x Chassis Screw
1 x One Key Recovery CD	1 x Power Cord	1 x Mounting Bracket