TANK-801-BT

- ■ Intel® Celeron® J1900 2 GHz, 10W
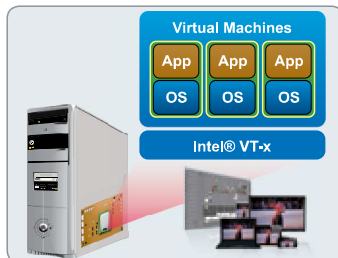- ■ Versatile 3 different backplane types

New

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

IRIS IPMI 2.0 Compliant | Fanless | -20°C~70°C | 9~36V DV Input | Dual LAN | DisplayPort | 1.35V DDR3L

5 YEARS 5-YEAR SUPPLY GUARANTEE

Enhanced Visual Experience

Virtual Machines
App App App
OS OS OS
Intel® VT-x

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

SoC platform *(2 chip to 1 chip)*

22nm Processor Technology

NEW:
Quad Core CPU with Intel® Turbo Burst Technology

Intel® Atom™ Processor D2xxx/N2xxx

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

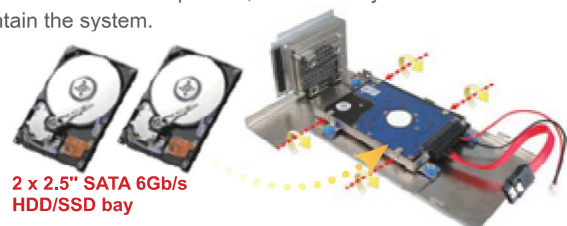|	
3D Graphics	DX11.1, OGL 4.0, OGL ES 2.0, OVG 1.1
Video Decode	H.264, MPEG2, MPEG4, VC1/WMV9, VP8 up to 1080p decode
Video Encode	H.264, MPEG2

Diversify Expansion Interface

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 x 2.5'' SATA 6Gb/s HDD/SSD bay

1 Industrial Computing Solutions

2 Video Capture Solutions

3 Embedded Computing Solutions

4 ORing Network Communication

5 Power Supply/ Peripherals

6 Panel Solutions Introduction

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	Processor CPU	Intel® Celeron® J1900 2 GHz
	Chipset	SoC
	System Memory	One 204-pin DDR3L 1.35V SO-DIMM 2 GB pre-installed (system max: 8G)
IPMI	iRIS Solution	iRIS-2400
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
	RS-232	2 x DB-9
	RS-422/485	2 x DB-9 RS-232/422/485 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	802.1b/g/n 2T2R (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
Power	Power Input	Terminal Block: 9 V~36 V DC DC Jack: 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 ~ 70°C with air flow (SSD), 5% ~ 95%, 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

Power switch
1. Long-press 2 sec. to power on
2. Long-press 5 sec. to power off

OLED
2 x USB 2.0
2 x LAN
2 x USB 3.0
2 x DIO
2 x RS-232/422/485
2 x RS-232
Line-out/Mic

Reset
CF Card
1 x AT/ATX Mode
1 x ACC Mode
1 x DisplayPort
DVI-I
Power2 (DC Jack)
Power1 (Terminal Block)

Dimensions (Unit: mm)

188
190.70
136
219
235
247.29

TANK-801-BT

Ordering information

Part No.	Description
TANK-801-BTi-J1/2G/3A-R10	Fanless embedded system with two PCI and one PCIe x 1 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, R10, RoHs
TANK-801-BTi-J1/2G/3B-R10	Fanless embedded system with one PCI and two PCIe x 1 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, R10, RoHs
TANK-801-BTi-J1/2G/3C-R10	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, R10, RoHs

Options

Item	Part No.	Description
OS: Windows Embedded 7 (CD-ROM)	TANK-801-WES7E-R10 (CD-ROM)	OS Image with Windows® Embedded Standard 7 E for TANK-801 Series, with 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

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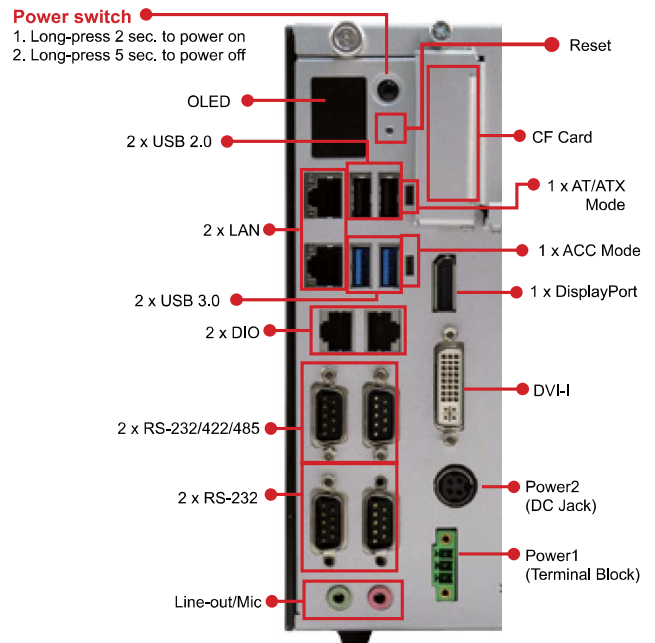
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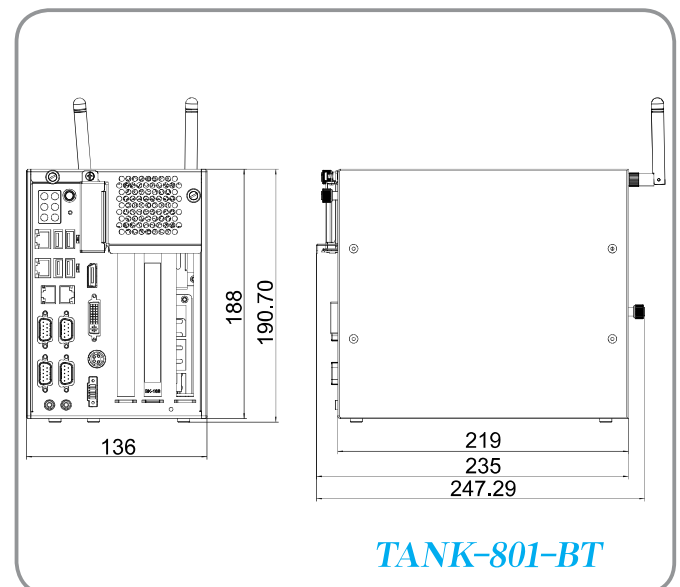Panel Solutions Introduction