

# TANK-801-BT

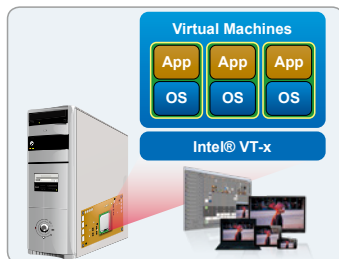
- Intel® Celeron® J1900 2 GHz, 10W
- Versatile three different backplane types

## 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



## Enhanced Visual Experience



Support Intel® Virtualization Technology



Automation

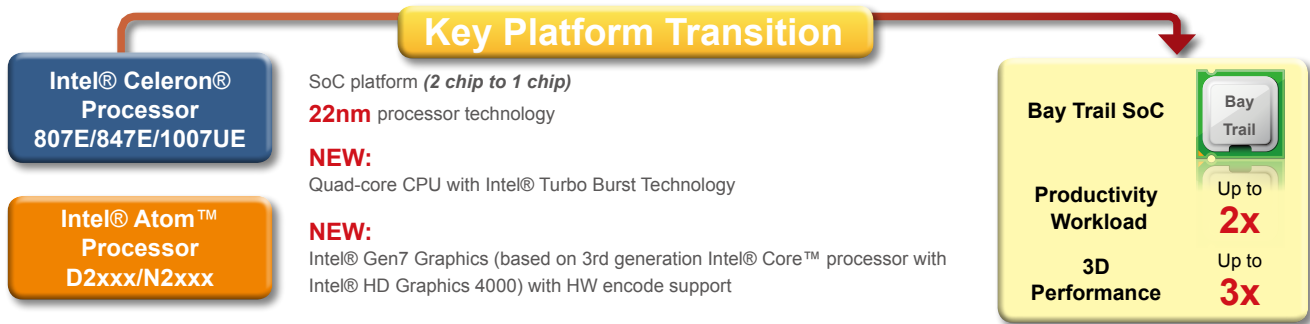


Video HD Technology  
Spectacular HD Playback

## 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



### ■ 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  |

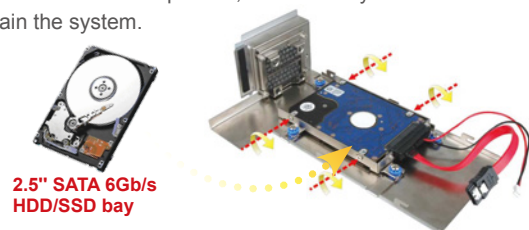
## Diversified Expansion Interfaces

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 x1 |
| 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.

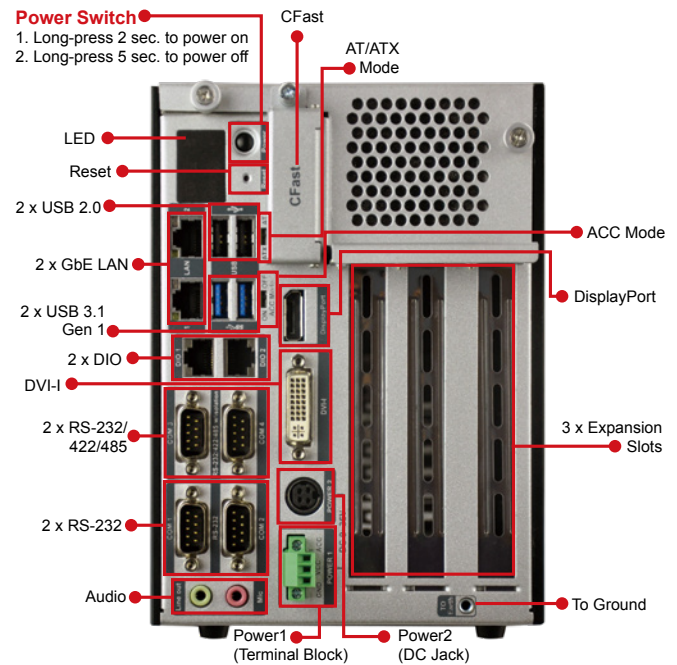


2.5" SATA 6Gb/s  
HDD/SSD bay

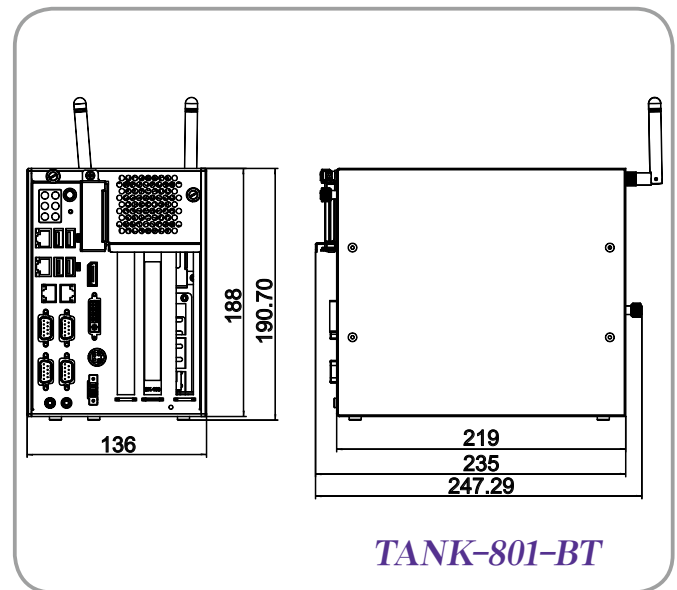
## Specifications

| 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 3.1 Gen 1 (5Gb/s)   | 2  |   |
|                       | USB 2.0                 | 2  |   |
|                       | Ethernet                | 2 x RJ-45<br>1 x PCIe GbE by Intel® I210<br>1 x PCIe GbE by Intel® I211      |   |
|                       | COM Port                | 2 x RS-232 (DB-9)<br>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<br>DVI-I: Up to 2560 x 1600                   |   |
|                       | 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<br>3B: Two PCIe x1 + One x PCI<br>3C: Three x PCI |
|                       |                         | PCIe Mini  | 1 x Full-size PCIe Mini   |
|                       | Power                   | Power Input  | DC Jack: 9 V~36 V DC<br>Terminal Block: 9 V~36 V DC                           |
|                       |                         | Power Consumption  | 19 V@1.8 A<br>(Intel® Celeron® J1900 with 2 GB DDR3 memory)                   |
|                       | Reliability             | Mounting   | Wall mount  |
| Operating Temperature |                         | -20°C ~ 60°C with air flow (SSD),<br>5% ~ 95%, non-condensing                |   |
| Storage Temperature   |                         | -40°C ~ 85°C with air flow (SSD),<br>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,<br>Microsoft® Windows® Embedded Standard 7 E |   |

## Fully Integrated I/O



## Dimensions (Unit: mm)



## Ordering Information

| Part No.                  | Description   |
|---------------------------|---|
| TANK-801-BTI-J1/2G/3A-R12 | 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-R12 | 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-R12 | 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   |
| EMB-FAN-KIT02-R10     | Fan Module;MODIFY 31100-000272-RS;+12V DC;4PIN;40*40*15mm ;STANDARD;;FD124015LB2W3;; L= 400mm MOLEX 5051-04P P=2.54;CCL;RoHS                          |
| EMB-WIFI-KIT01-R20    | 1T1R wifi module kit for embedded system, IEEE802.11a/b/g/n/ac WiFi with Bluetooth 4.0/3.0+HS, 1 x wifi module, 2 x 250mm 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 Power Adapter (With PSE & ErP Certified) | 1 x Chassis Screw    |
| 1 x Power Cord                               | 1 x Mounting Bracket |