

TANK-800-D525 820-H61

- D525 3-Slot Fanless Embedded System
- Sandy Bridge 3-Slot Embedded System

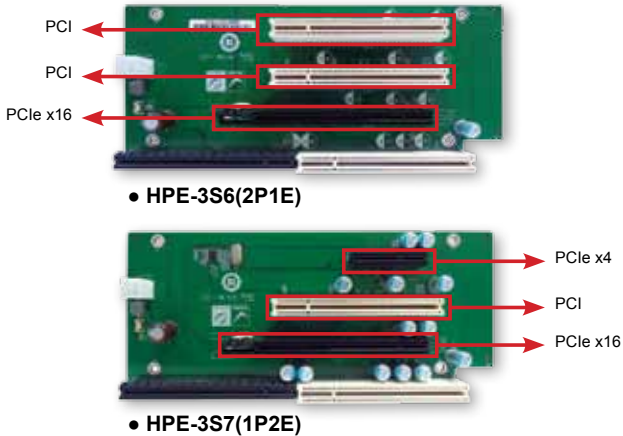
Features

- ◆ Intel® Atom™ D525 1.8GHz dual-core processor for TANK-800
2nd Generation Intel® Core™ low power desktop processors for TANK-820
- ◆ On-board 1GB DDR3 memory and one DDR3 SO-DIMM slot (system max. 3GB) for TANK-800
On-board 2GB DDR3 memory and one DDR3 SO-DIMM slot (system max. 10GB) for TANK-820
- ◆ Redundant dual wide range DC power support (TANK-800-D525: 9 ~36 VDC / TANK-820-H61: 9 ~ 24 VDC)
- ◆ Flexible PCI/PCIe expansion slots satisfy customized requirements
- ◆ Rich I/O functions satisfy various applications
- ◆ Extended temperature fanless design (TANK-800-D525)
- ◆ Dual PCIe GbE LAN for high speed network applications
- ◆ One CompactFlash® socket



Versatile Expansion Interface

The TANK-800/820 series has various kinds of expansion interfaces which allow you to connect additional circuits or expansion boards to the system via IEI riser cards. These expansion options provide flexible function enhancement and simplify system integration.



- The two types of backplane support standard PCI/PCIe cards with maximum dimensions (WxL): 111 x 190 mm
- The rated voltage and current of the backplane

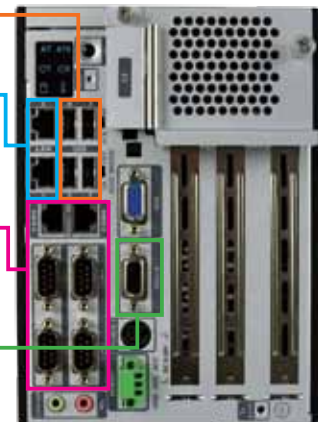
Voltage	Current
+5V	7A
+12V	3.75A
-12V	0.1A
+3.3V	8A
Max. power supported by the backplane: <45W	

The system default power is 90 W. **The maximum total power of the backplane to support expansion cards is 45 W.** The power of the selected expansion cards can not exceed the max. power (45 W), otherwise, the system may be unstable.

Backplane	Slot	TANK-800	TANK-820
		Signal	Signal
HPE-3S6(2P1E)	PCI	PCI	PCI
	PCIe x16	PCIe x4	PCIe x8
HPE-3S7(1P2E)	PCI	PCI	PCI
	PCIe x4	PCIe x1	PCIe x1
	PCIe x16	PCIe x2	PCIe x8

Rich I/O Function

- **Four USB Ports**
Four USB ports can completely satisfy other USB devices or access requirements.
- **Dual GbE Ethernet Ports**
Dual GbE Ethernet ports offer a diverse range of network communication options, helping users easily create an integrated industrial application that requires Ethernet protocols.
- **Serial Ports**
Serial ports help millions of serial devices connect to the network for industrial applications. Our RS-232/422/485 serial ports provide powerful communication performance for all industrial device connectivity.
- **8-bit Digital I/O, 4-bit input/4-bit output**
The DIO channels are quite useful for remote controlling, such as device power on/off, LEDs on/off, counter and cash drawer control.



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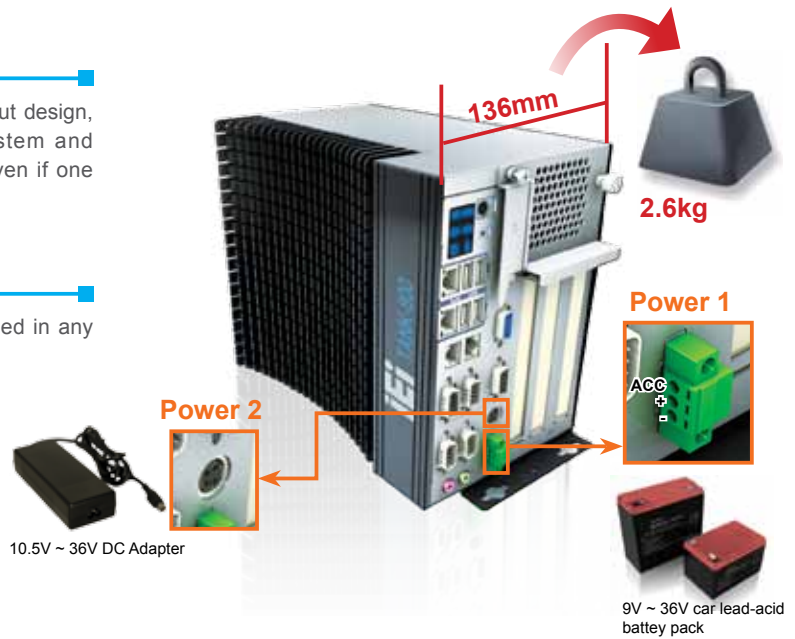
Panel Solutions Introduction

Redundant Dual DC Power Input

The TANK-800-D525 adopts redundant dual DC power input design, which ensures uninterrupted power supply to the system and eliminates the risk of sudden shutdown and data loss, even if one power is unavailable or low voltage capacity is present.

Compact

Compact solution can sustain strong vibrations and be used in any industrial environments.



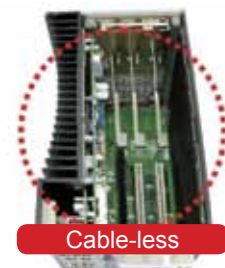
Anti-Vibration and Anti-Shock Design

With the rugged design, the TANK-800/820 series is reliable in industrial environments to resist strong vibrations and can be used as a core computer requiring to be installed on moving objects.



Cable-less

The cable-less concept offers a strong hardware design and promises a reliable combination of embedded components. This design helps ensuring stable system operation and robust hardware design. With all the components firmly attached, the TANK-800/820 series is ideal to be installed on moving objects.



Wide Range DC Power Input

The TANK-800/820 series accepts wide range DC power input, allowing it to be powered anywhere, no matter if a 12V, 24V DC source or a 19V power adapter is available.



Ingenious Fan Space Design

The TANK-800/820 series reserves an easy-to-install, hot-pluggable fan module space, ensuring the PCI/PCIe expansion cards with high power consumption to operate under high temperature environment.



Fanless

The TANK-800 series provides the best components that generate less heat, but maintain high system performance. With the fanless design, the TANK-800-D525 reduces system failure caused by fans and extends the lifetime of the device.



Wide Range Temperature

The TANK-800/820 series is designed to withstand wide range of temperatures. With this design, the TANK-800/820 series can even be installed in a high-temperature roadside cabinet.



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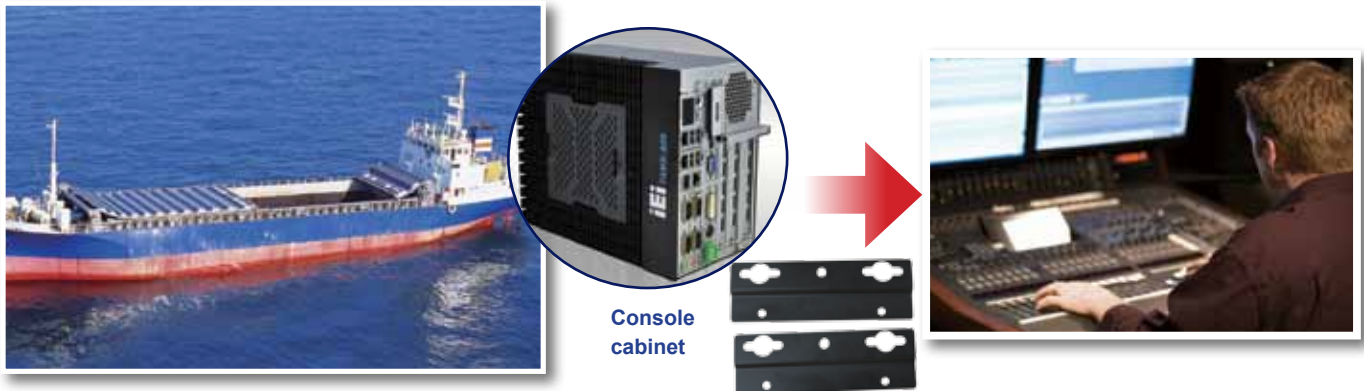
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Mounting Method

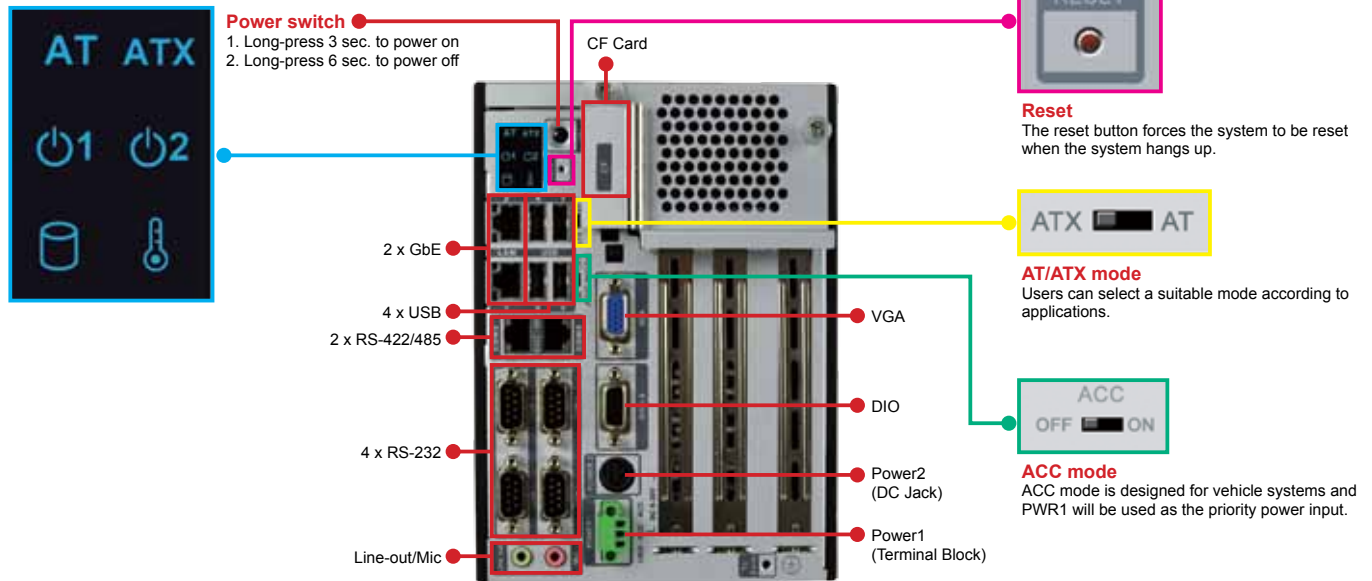
Mount the embedded system onto a wall or other surfaces using the two mounting brackets.



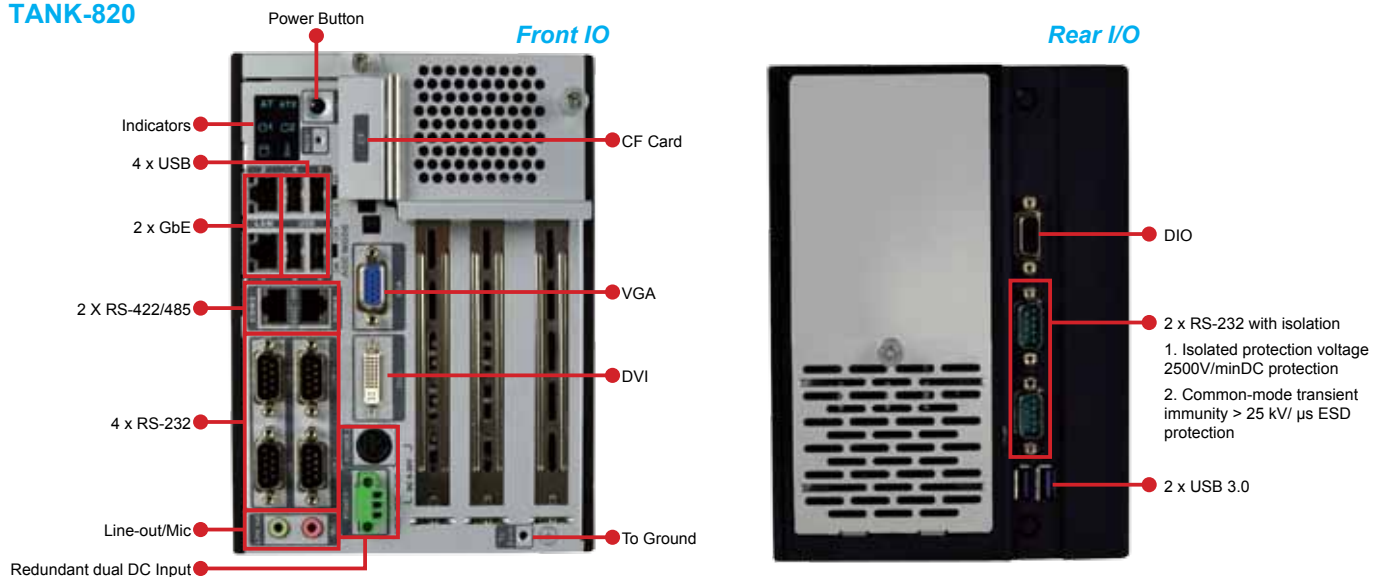
Console cabinet

Fully Integrated I/O

TANK-800 Front IO



TANK-820



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