TANK-101B-252

Fanless Embedded Controller with Dual-Core Intel® Atom™ D525 Processor



Features

- ◆ Dual-core Intel® Atom™ D525 processor inside
- ♦ Wide range 9 V~36 V DC power input
- ◆ Isolation protected COM and CAN communication
- ◆ Extended temperature fanless design supports -20°C ~ 70°C (N455)







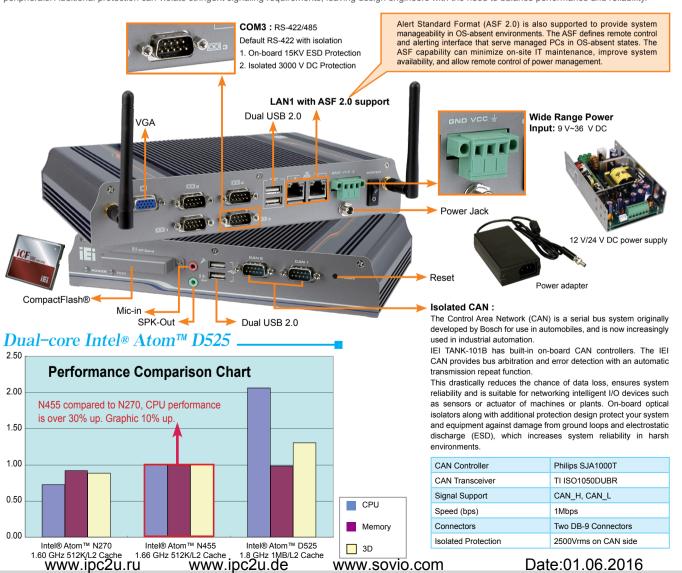
Date:01.06.2016



The TANK-101B is designed with all the functions and protections compliant with targeting transport market. It not only provides dual-core computing power delivered by the Intel® Atom™ D525, its onboard memory with CompactFlash®/SATA DOM solid-state storage can withstand severe operating environments on board. With typical voltage at 24 V DC, the TANK-101B can take wide range DC input from 9 V to 36 V as power source. It also has COM port and CANBus with isolation protection for device control, dual Realtek GbE LAN and 802.11b/g/n for high speed communication. The TANK-101B supports all these versatile functions in a compact enclosure in addition to fanless operation.

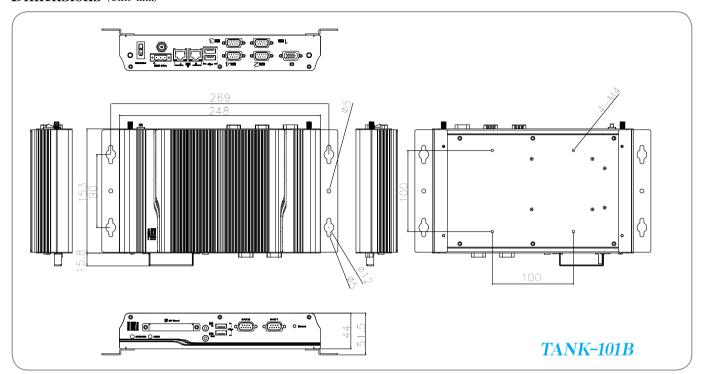
Isolation Protection.

An integrated circuit (IC) connected to external ports is susceptible to damaging electrostatic discharge (ESD) pulses form the operating environment and peripherals. Additional protection can violate stringent signaling requirements, leaving design engineers with the need to balance performance and reliability.



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Dimensions (Unit: mm)



Specifications

Specifications			
Model Name		TANK-101B	
Chassis	Color	Cool Gray+Blue	
	Dimensions (WxDxH) (mm)	248 x 138 x 44	
	System Fan	Fanless	
	Chassis Construction	Aluminum alloys with heavy duty metal	
Motherboard	Processor CPU	Intel® Atom™ D525 1.8 GHz Intel® Atom™ N455 1.66 GHz	
	Chipset	Intel® ICH8M	
	System Memory	On-board DDR3 1 GB memory 1 x 204-pin DDR3 SDRAM SO-DIMM (system max: 3 GB)	
Storage	Hard Drive	1 x 2.5" SATA 3Gb/s HDD/SSD bay	
	CF Card/CFast	1 x CF Type II	
	USB 2.0	4	
	Ethernet	2 x RJ-45 PCIe GbE by Realtek 8111E	
	RS-232	3 x DB-9	
System Function	RS-422/485	1 x DB-9 Default RS-422 with isolation	
	CAN Bus	2 x DB-9 CAN with isolation	
	Display	1 x VGA	
	Resolution	VGA: Up to 2048 x 1536@60Hz	
	Audio	1 x Line-out, 1 x Mic-in	
	Wireless	1 x 802.11b/g/n (optional)	
Expansions	PCIe Mini	1 x Full size (reserved for Wi-Fi module)	
	Power Input	DC Jack: 9 V~36 V DC	
Power	Power Consumption	12 V@1.85 A (Intel® Atom™ D525 with DDR3 1 GB)	
Reliability	Mounting	Din-rail, wall mount	
	Operating Temperature	-20°C-60°C (D525 with air flow CF/SSD), $5\% \sim 95\%$, non-condensing -20 °C-70°C (N455 with air flow CF/SSD), $5\% \sim 95\%$, non-condensing	
	Operating Shock	Half-sine wave shock 3G, 11ms, 3 shocks per axis	
	Operating Vibration	MIL-STD-810F 514.5C-1 with SATA HDD MIL-STD-810F 514.5C-2 with CompactFlash®/SSD	
	Weight (Net/Gross)	2.1 kg/3.9 kg	
	Safety/EMC	CE/FCC	
os	Supported OS	Microsoft® Windows® XP Embedded	

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Packing list

1 x SATA HDD drive cable (Part No.: 32801-004900-100-RS)			
1 x 60W 12 V power adapter (Meet PSE & ErP) (Part No.: 63040-010060-120-RS)			
2 x Wireless antenna (For wireless model only)			
1 x Power cord	1 x One Key Recovery CD		
2 x Wall mount brackets	1 x Driver CD		
1 x Screw set	1 x QIG		



Wall mount Bracket

Ordering information

Part No.	Description
TANK-101B-R11/D525/1GB	Extended tempeture fanless embedded system with dual- core Intel® Atom™ Processor D525 1.8 GHz CPU with two isolated CAN, one isolated serial port, 1 GB DDR3 memory onboard, 9 V~36 V DC in, Pantone 287C + Cool Gray 2C, -20°C ~ 60°C, RoHS
TANK-101B-R11/N455/1GB	Extended tempeture fanless embedded system with Intel® Atom™ Processor N455 1.66 GHz CPU with two isolated CAN, one isolated serial port, 1 GB DDR3 memory onboard, 9 V~36 V DC in, Pantone 287C + Cool Gray 2C, -20°C ~ 70°C, RoHS

Embedded OS support

TANKCF-101B-XPE-1GB Windo

Windows® XP Embedded OS image, for TANK-101B, with 1 GB CompactFlash® memory card, RoHS

* For other CompactFlash® capacity, please contact IEI for customization options.

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