

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

*It is self-validated by IEI inside lab.

Isolation Protection

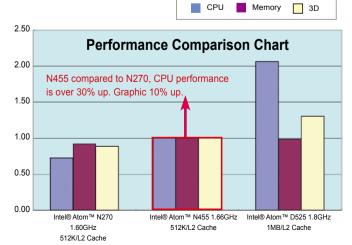
An integrated circuit (IC) connected to external ports is susceptible to damaging electrostatic discharge (ESD) pulses form the operating environment and peripherals. Additional protection can violate stringent signaling requirements, leaving design engineers with the need to



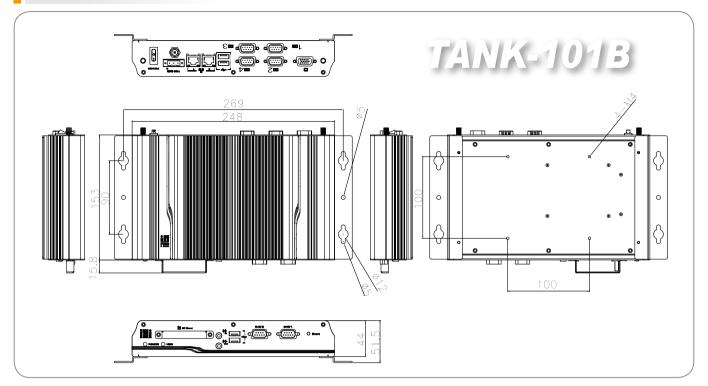
New Dual Core Intel® Atom™ D525

Luna Pier Refresh is the new generation two chip dual core solution of Intel® Atom™ family. Empowered by 45nm process technology:

- 45nm process technology delivers more performance at lower TDP
- Provides mobile single core to desktop dual-core scalability
- 3rd generation graphic core with 400MHz render clock speed



Dimensions (unit: mm)



Specifications

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Model Name		TANK-101B	
Platform		Intel®	
Chassis	Color	Cool Gray+Blue	
	Dimensions	248 x 138 x 44 mm	
	Chassis Construction	Aluminum Alloy with heavy duty metal	
Motherboard	Processor CPU	Intel® Atom™ D525 processor 1.8 GHz /1 MB L2 cache Intel® Atom™ N455 processor 1.66 GHz /512 KB L2 cache	
	Chipset	ICH8M	
	System Memory	1 GB DDR3 memory on board One expansion 204-pin DDR3 slot (Support up to 2GB)	
Storage	Hard Drive	1 x 2.5" SATA HDD space	
	Compact Flash	1	
System Function	USB 2.0	4	
	Ethernet	2 x Realtek 8111E PCIe GbE	
	RS232	4 (COM 3 with isolation)	
	RS232/422/485	RS232/422/485 Default RS422 with isolation	
	Display	1 x VGA	
	Resoluiton	Up to 2048 x 1536 @ 60 Hz	
	Audio	1 x Mic in, 1 x Speaker out	
	Other	2 x CAN with isolation	
	Wireless	1 x 802.11 b/g/n	
	PCIe Mini Card	1 x PCIe mini card slot (reserve for wifi module, optional for IEI mini DOM)	
Power	Wide Range Power In	9~36 V DC	
Reliability	Mounting	DIN mount (optional), wall-mount	
	Operating Temperature	-20°C ~ 60°C (D525 model with CompactFlash ®/SSD) -20°C ~ 70°C (model with CompactFlash® /SSD) *Ambient air speed pre IEC-68-2-2 standard -10°C ~ 50°C with WI-FI	
	Operating Shock		
	Operating Shock	Half sine wave 3G; 11ms 3axis	
	Operating Vibration	Meet MIL-STD-810F 514.5C-1 with SATA HDD MIL-STD-810F 514.5C-2 with SATA SSD/CF	
	Weight (Net/Gross)	2.1 kg / 3.9 kg	

Packing List

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1 x Driver CD

1 x Screw set

2 x Wireless antenna (For wireless model only)

1 x SATA hard drive cable

2 x Wall mount bracket

Ordering Information

Description				
Extend tempeture fanless embedded system with dual core Intel® Atom™ Processor D525 1.8GHz CPU with two isolated CAN, one isolated Serial Ports, 1GB DDR3 memory onboard, 9~36V DC in, Pantone 287C + Cool Gray 2C, -20°C ~ 60°C, RoHS				
Extend tempeture fanless embedded system with Intel® Atom™ Processor N455 1.66GHz CPU with two isolated CAN, one isolated Serial Ports, 1GB DDR3 memory onboard, 9~36V DC in, Pantone 287C + Cool Gray 2C, -20°C ~ 70° C, R				
Fanless embedded system with dual core Intel ® Atom™ Processor D525 1.8GHz CPU with two isolated CAN, one isolated Serial Ports, built-in 802.11b/g/n wireless, 1GB DDR3 memory onboard, 9~36V DC in, Pantone 287C + Cool Gray -10°C ~ 50°C, RoHS				
DIN mount kit for embedded system, black, RoHS				

Embedded OS support

TANK-101B-XPE-1GB

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

^{*} For other CompactFlash® capacity, please contact with IEI for customization.