TANK-GM45A Extended Temperature Fanless Embedded System with Intel® Core™ 2 Duo Processor



Features

- ◆ Socket P Intel® 45nm Mobile Core™2 Duo Processor
- ◆ Extended Temperature Fanless design supports -20°C~70°C
- ◆ High Performance MPEG-2 Decoding, WMV9 (VC-1) and H.264 (AVC)
- ◆ Built-in DDR2 SO-DIMM 2GB memory
- ◆ Supports 2 x COM, 4 x USB 2.0, 2 x Intel® GbE LAN
- ♦ IEI One Key Recovery solution allows you to create rapid OS backup and recovery



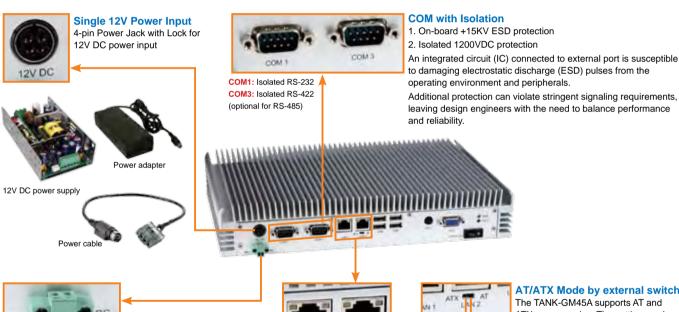




Extended Temperature System with Multi-Function.

Turn off the system; more than 1 V input Turn on the system: less than 0.5 V input

The TANK-GM45A supports an extended temperature range from -20°C up to 70°C with one industrial 2.5" SATA Flash Disk. IEI IFD 2.5" SSD supports SATA SLC solutions and features anti-vibration, low power consumption, high performance and perfect reliability. SSD not only performs much better IOPS than HDD, it also can be operated anytime without mobile components like a motor, bearing or rotating head. In addition, SSD can perform in any harsh environment.



LAN 1 **High Performance Intel® GbE**

• Intel® 82574L

The 82574 provides one PCIe lane operating at 2.5 GHz with sufficient bandwidth to support 1000 Mb/s transfer rate. It supports 9018-byte jumbo packets,

40 KB of on-chip buffering mitigates instantaneous receive bandwidth demands and eliminates transmit under-runs by buffering the entire outgoing packet prior to transmission.

ATX-

IP Video

Surveillance

• Intel® WG82567LM

The 82567 is a single port GbE Physical Layer Transceiver (PHY) that connects to its Media Access Controller (MAC) through a dedicated interconnect and supports operation at data rate of 10/100/1000 Mb/s. Supports up to 9 kB jumbo frames (full duplex).

AT/ATX Mode by external switch

The TANK-GM45A supports AT and ATX power modes. The setting can be made through the AT/ATX switch on the external peripheral interface panel.

Digital Security Surveillance





The GPIO terminal block connects to a remote control device.

Users can control the system power on/off by inputting high or

GND

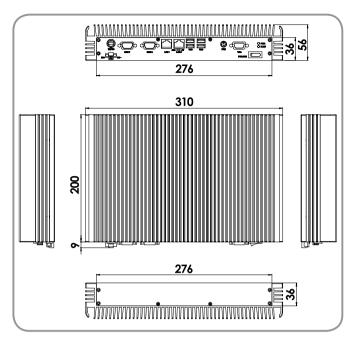
low voltage into the terminal block.

DIO

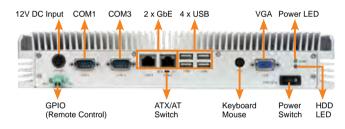
Specifications

Model Name		TANK-GM45A
Chassis	Color	Sliver
	Dimensions (WxDxH)	310 x 200 x 55 mm
	System Fan	Fanless
	Chassis Construction	Aluminum alloy with heavy duty metal
Motherboard	CPU	Intel® Core [™] Duo P8400 2.26GHz Intel® Celeron® M 575 2.0GHz
	Chipset	Intel® GM45 + ICH9M
	System Memory	Pre-installed 2GB DDR2 SO-DIMM (System Max 2GB)
Storage	Hard Drive	1 x 2.5" SATA HDD Bay
	PS2 (KB/MS)	1
	USB 2.0	4
I/O interfaces	Ethernet	2 x RJ-45 LAN1: Intel® 82574L Ethernet Controller LAN2: Intel® WG82567LM Ethernet PHY
	RS-232	1 x DB-9 w/isolation
	RS-232/422/485	1 x DB-9 Default RS-422 w/isolation
	Digital I/O	DIO signal for remote on/off control
	Display	1 x VGA
	Resolution	VGA: Up to 2048 x 1536 @ 75Hz
	Power Input	Terminal / DC Jack: 12V DC
Power	Power Consumption	12V@3.85A (Intel® Core™ 2 Duo P8600 with DDR2 2GB)
Reliability	Mounting	Wall mount
	Operating Temperature	-20°C ~ 70°C with air flow (SSD), 5% ~ 95%, non-condensing
	Operating Shock	Half-sine wave shock 3G, 11ms, 3 shocks per axis
	Operating Vibration	MIL-STD-810F 514.5C-1
	Weight (Net/Gross)	3.5kg/4.2kg
	Safety / EMC	CE/FCC
os	Supported OS	Microsoft® WES7E, Microsoft® Windows® XP Embedded

Dimensions (Unit: mm)



Integrated I/O



Packing List

1 x Power Cable (Terminal Block DC in Cable) (Part No.: 32002-002000-100-RS)		
1 x Screw Set for Wall Mount Kit		
2 x Wall Mount Backets	1 x QIG	
1 x One Key Recovery CD	1 x CD	
	-S	





Wall Mount Bracket

Ordering Information

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	Part No.	Description	
TANK-GM45A-R10/P8400/2GB Extend temperature fanless embedded system with Intel® Core™ 2 Duo P8400 2 memory, 12VDC, -20°C-70°C, RoHS		Extend temperature fanless embedded system with Intel® Core™ 2 Duo P8400 2.26 GHz 3MB L2 cache and GM45 chipset, with 2GB DDR2 memory, 12VDC, -20°C-70°C, RoHS	
	TANK-GM45A-R10/CM575/2GB	Extended temperture fanless embedded system with Intel® Celeron® M 575 2.0 GHz 1MB L2 cache and GM45 chipset, with 2GB DDR2 memoral 12VDC, -20°C-70°C, RoHS	
	63000-FSP060DBAB1554-RS	Power adapter, FSP060-DBAB1554, input VAC: 90~264V, output: 12V/60W with ERP and PSE certificates	
	63000-FSP096AHB-RS	Power adapter, FSP096-AHB, input VAC: 90~264V, output: 12V/96W with ERP and PSE certificates	
	32000-000002-RS	17.5cm European Standard Power Cord	
	32000-000025-RS	18.3cm American Standard Power Cord	
	32006-00300-100-RS	PS2 KB/MS Y Cable	
	IFD-2510WT-XXXXX	iFD 2.5" SATA 3.0 2510WT SLC SSD Wide Temp. Grade -40°C~85°C (8GB~128GB)	
	IFD-2510RW-XXXXX	iFD 2.5" SATA 3.0 2510RW SLC SSD Wide Temp. Grade -40°C~85°C (1GB~32GB)	
	IFD-2000JW-XXXXX	iFD 2.5" SATA 3.0 2000JW SLC SSD Wide Temp. Grade -40°C~85°C (8GB~128GB)	

XXXXX=Capacity

ORing Network Communication

Power Supply/ Peripherals

Panel Solutions Introduction