# 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

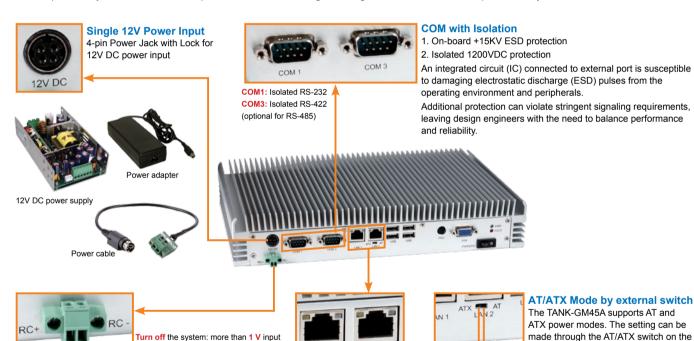






### Extended Temperature System with Multi-Function.

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.



RC+

DIO

The GPIO terminal block connects to a remote control device. Users can control the system power on/off by inputting high or low voltage into the terminal block.

GND

Turn on the system: less than 0.5 V input



### **High Performance Intel® GbE**

IAN 2

### • Intel® 82574L

LAN 1

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.

### • 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).

ATX.

**IP Video** 

Surveillance

**Digital Security Surveillance** 

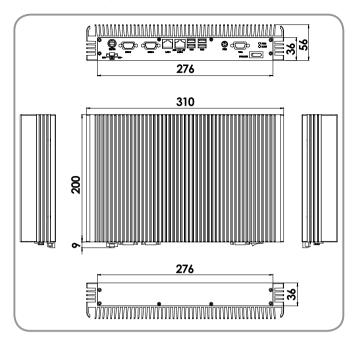
external peripheral interface panel.



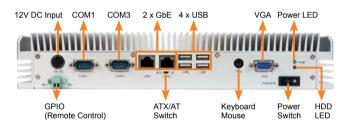
# **Specifications**

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 <sup>™</sup> 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
I/O interfaces	USB 2.0	4
	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)
	Mounting	Wall mount
	Operating Temperature	-20°C ~ 70°C with air flow (SSD), 5% ~ 95%, non-condensing
Reliability	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		





Wall Mount Bracket

# Ordering Information

Part No.	Description	
TANK-GM45A-R10/P8400/2GB	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 memory, 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