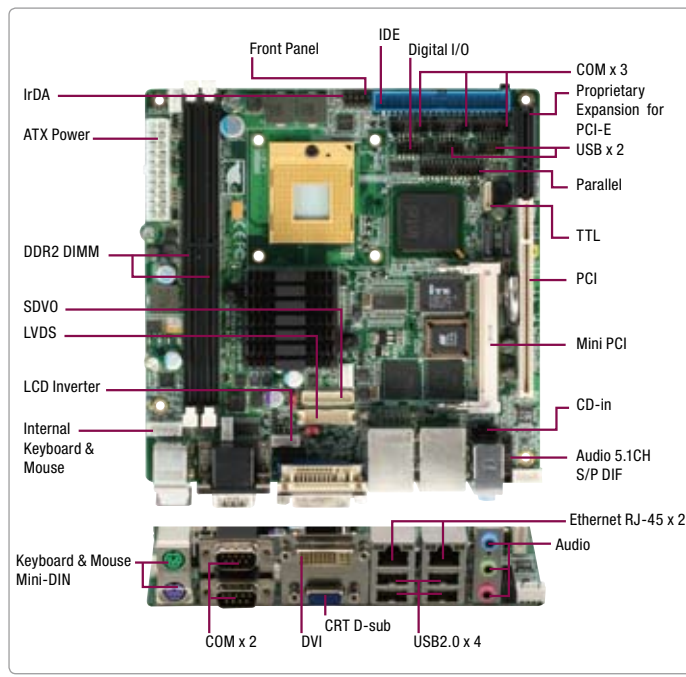


# EMB-9458T

Embedded Motherboard with Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M Processor

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Embedded & Industrial Motherboards



## Features

- Socket-478M Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M Processor
- Intel® 945GME + ICH7M (-DH Optional For RAID)
- DIMM DDR2 400/533/667, Up To 4 GB
- Gigabit Ethernet x 2
- 18/24-bit Dual-channel LVDS TFT LCD, CRT, DVI, SDVO Connector x 1 For 2<sup>nd</sup> 18/24-bit Dual-channel LVDS/DVI
- HD 5.1CH Audio, Stereo Amplifier
- Type 2 CompactFlash™ x 1, SATA 3.0Gb/s x 2 (Optional RAID 0 & RAID 1), EIDE x 1
- COM x 5, USB x 8, 8-bit Digital I/O x 1
- PCI x 1, Mini PCI x 1, PCI-Express [x1] x 2 (Through Riser Card)
- AT, ATX
- Optional TPM 1.2



## Specifications

System	
Form Factor	Mini-ITX
Processor	Socket-478M Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M Processor, FSB 533/667 MHz
System Memory	240-pin DIMM x 2, DDR2 400/533/667 up to 4 GB
Chipset	Intel® 945GME + ICH7M (-DH optional for RAID)
I/O Chipset	ICH7M (-DH optional for RAID) + IT8712F-KX
Ethernet	Intel® 82573L, 10/100/1000Base-TX, RJ-45x2
BIOS	Award Plug & Play BIOS – 1 MB ROM
Wake On LAN	Yes
Watchdog Timer	ITE8712
H/W Status Monitoring	Supports power supply voltages, fan speed and temperature monitoring
Expansion Interface	PCI x 1, Mini PCI x 1, PCI-Express [x1] x 2 (optional)
Power Requirement	ATX (+3.3V, +5V, +5VSB, +12V) or AT (+5V, +12V)
Power Consumption (Typical)	Intel® T7400 2.16 GHz, DDR2 667 2 GB 2.24A@+12V, 3.6A@+5V
Board Size	6.7" (L) x 6.7" (W) (170 mm x 170mm)
Gross Weight	1.2 lb (0.5 Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	60,000
Display	
Chipset	Intel® 945GME
Memory	Shared system memory up to 224 MB With DVMT3.0
Resolutions	Up to 2048 x 1536 @ 32bpp for CRT Up to 1280 x 1024 @ 36-bit for LCD
LCD Interface	18/24-bit dual-channel LVDS TFT LCD, 2nd 18/24-bit dual-channel LVDS through SDVO Card (TF-PER-V04B-A10)
DVI	DVI-I x 1, 2nd DVI through SDVO Card (TF-PER-V03B-A10)
TPM	Optional
I/O	
Storage	EIDE x 1 (UDMA 100 for one device), SATA 3.0Gb/s x 2, Type 2 CompactFlash™ x 1
Serial Port	RS-232 x 4, TTL only x 1, RS-232/422/485 x 1
Parallel Port	SPP/ EPP/ ECP mode
USB	USB2.0 x 8
PS/2 Port	Keyboard x 1, Mouse x 1
Digital I/O	Supports 8-bit (Programmable)
IrDA	One IrDA Tx/Rx header
Audio	Mic-in, Line-in, Line-out, CD-in, Stereo Amplifier included

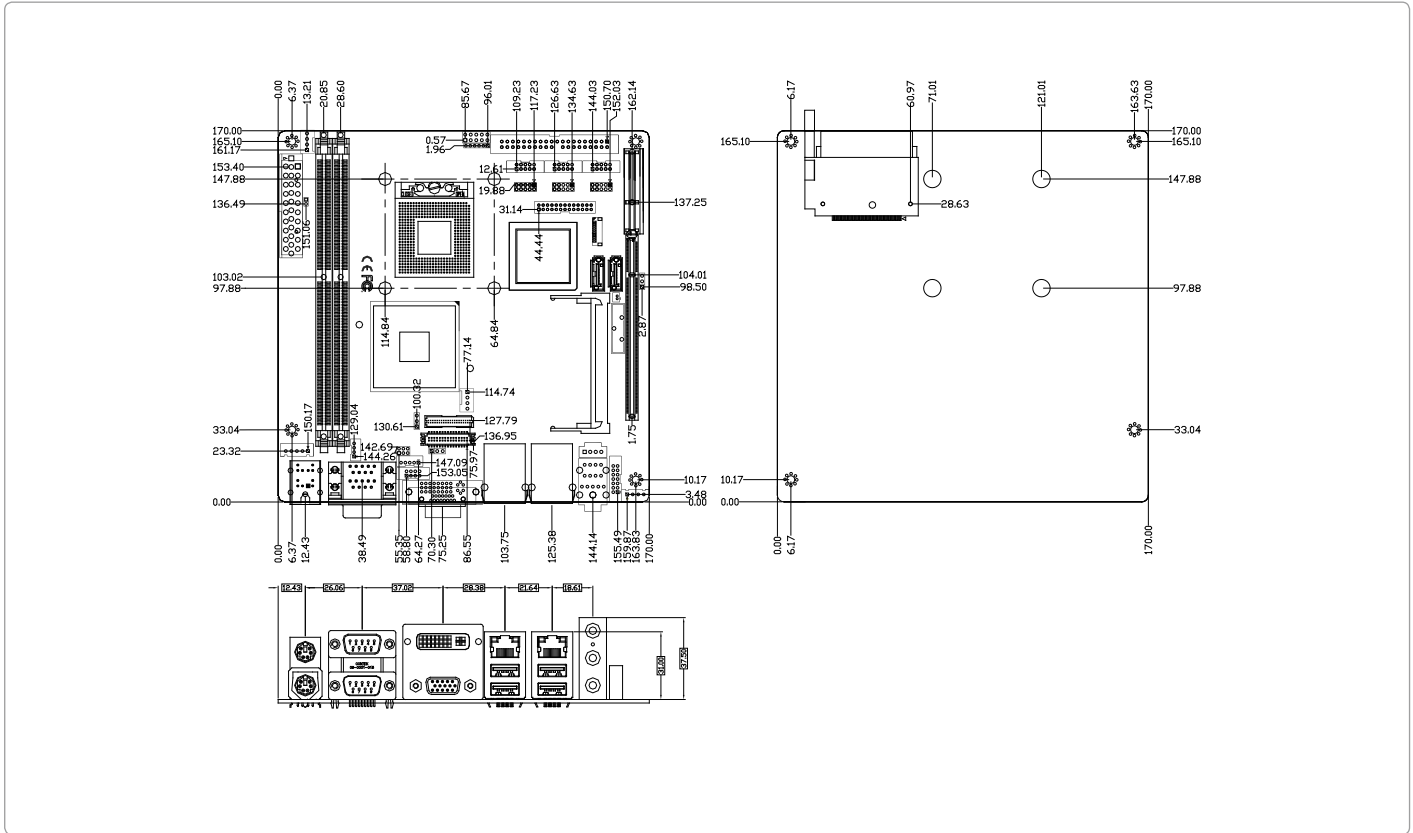
## Packing List

- 1701400453 IDE Cable
- 9657666600 Jumper Cap
- 1709070500 SATA Cable
- 1702150150 SATA Power Cable
- M206908T00 Metal I/O Bracket
- Product CD
- EMB-9458T

# EMB-9458T

## Dimension

Unit: mm



## Ordering Information

Part Number	CPU	RAM	Fan/Fanless	Display	Storage	LVDS	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Temp.
TF-EMB-9458T-A10	Socket	DIMM	Fan	VGA/LVDS/DVI-I	SATA2 x 2 EIDE x 1 CF x 1	18b/24b, 2 CH	GbE x 2	8	4	1	PCI-E[x1] x 1, Mini PCI x 1, PCI x 1	ATX/AT	0°C ~ 60°C

## Optional Accessories

- **TF-PER-R16P-A10**  
Riser Card, PCI + PCI-E [x4]
- **TF-PER-C10L-A10**  
Mini PCI 10/100Base-TX Ethernet Module with Realtek 8100C
- **TF-PER-C10L-A10-01**  
Mini PCI Gigabit Ethernet Module with Realtek 8110S
- **TF-PER-C10L-A10-02**  
Mini PCI 10/100Base-TX Ethernet Module with Intel® 82551QM
- **TF-PER-C10L-A10-03**  
Mini PCI Gigabit Ethernet Module with Intel® 82541GI
- **TF-PER-C20S-A10**  
Mini PCI 2-port SATA Module Rev. A1.0
- **TF-PER-C30F-A10**  
Mini PCI 3-port IEEE 1394a Module
- **TF-PER-V03B-A10**  
SDVO to DVI Module
- **TF-PER-V04B-A10**  
SDVO to LVDS Module
- **TF-PER-C40C-A10**  
Mini PCI 2-port RS-232 Module Rev. A1.0
- **TF-PER-C40C-A10-01**  
Mini PCI 4-port RS-232 Module Rev. A1.0
- **TF-PER-1110-A10**  
Riser Card for PCI, 2-slot
- **TF-PER-C102**  
PCI-Express Dual Ethernet Board
- **1700200200**  
DVI Cable
- **M166666006**  
Metal, A1, Heat sink, Silver, 60 x 60 x 25.4mm for socket 478
- **17592SPI30**  
Cooler, Silver, 60 x 60 x 23, Dataguard
- **TF-PER-K003**  
Cable Kit for EMB-9458T
- **TF-PER-V03B**  
SDVO to DVI Module
- **TF-PER-V04B**  
SDVO to LVDS Module
- **TF-PER-T158**  
6th RS-232 Card For EMB-9458/9658