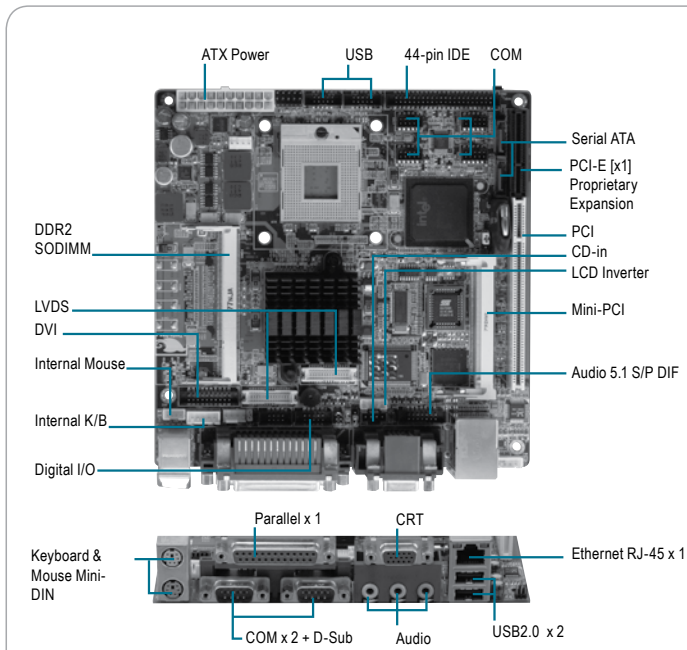


EMB-945T Rev. B

Embedded Motherboard With Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M Processors



Specifications

System	
Form Factor	Mini-ITX
Processor	Supports Socket-478M or onboard Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M Processors up to 2.16 GHz, FSB 533/667
System Memory	200 pin DDR2 SODIMM x 2, Max. 4 GB (DDR2 400/533/667)
Chipset	Intel® 945GME + ICH7M
I/O Chipset	ITE 8712 + Fintek F81216D
Ethernet	Intel® 82573, 10/100/1000Base-TX, RJ-45 x 1
BIOS	Award Plug & Play BIOS – 512 KB ROM
Wake On LAN	Yes
Watchdog Timer	ITE 8712
H/W Status Monitoring	Supports power supply voltages, fan speed and temperature monitoring
Expansion Interface	Mini-PCI x 1, PCI x 1, PCI-E [x1] x 1
Power Requirement	ATX (+3.3V, +5V, +12V)
Power Consumption (Typical)	T7400 2.16 GHz, DDR2 667 1 GB 2.59A@+12V, 2.88A@+5V, 0.6A@+3.3V
Board Size	6.7"(L) x 6.7"(W) (170 mm x 170 mm)
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)	70,000
Display	
Supports CRT/LCD, CRT/DVI, and LCD/DVI simultaneous / dual view displays	
Chipset	Intel® 945GME
VGA/LCD Controller	1. Intel® 945GME integrated Graphics, shared memory up to 224 MB with DVMT; LCD supports 24-bit dual-channel LVDS 2. Chrontel 7307 for DVI support 3. Chrontel 7308 for 24-bit Dual-channel LVDS support
DVI	DVI-D in pin-header
I/O	
Storage	EIDE x 1 (UDMA 33 for one device), SATA 1.5Gb/s x 2 Type 2 CompactFlash™ x 1
Serial Port	RS-232 x 5, RS-232/422/485 x 1,
Parallel Port	SPP/ EPP/ ECP mode
USB	USB2.0 x 6
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, S/PDIF in/out

Features

- Socket-478M or Onboard Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M Processors
- Intel® 945GME + ICH7M
- SODIMM DDR2 400/533/667 Max. 4 GB
- Gigabit Ethernet x 1 (Intel® 82573L)
- Up To 24-bit Dual-channel LVDS LCD
- AC97 5.1CH Audio
- Type 2 CompactFlash™, SATA 1.5Gb/s x 2 (Optional RAID 0 & 1), EIDE x 1
- COM x 6, Parallel x 1, USB2.0 x 6, 8-bit Digital I/O x 1
- PCI x 1, PCI-E [x1] x 2 (Through Riser Card), Mini-PCI x 1
- ATX
- LCD Inverter Connector With Brightness Control



Packing List

- **1701440500**
44-pin ATA33 Cable
(Optional for TF-EMB-945T-A10-02)
- **9657666600**
Jumper Cap
- **1709070500**
Serial ATA Cable
- **1702150150**
Serial ATA Power Cable
- **M20852T000**
Metal I/O Bracket
- **Quick Installation Guide**
- **Product CD**
- **EMB-945T Rev.B**

Ordering Information

- **TF-EMB-945T-B10**
Mini-ITX, Socket-478M, LCD-DVI, DDR2, Gigabit Ethernet, Audio, 6 COM, 6 USB, CompactFlash™, Mini-PCI, PCI-E, ATX, Rev. B1.0
- **TF-EMB-945T-B10-01**
Mini-ITX, Socket-478M, Gigabit Ethernet, Audio, 6 COM, 6 USB, CompactFlash™, Mini-PCI, PCI-E, ATX, Rev.B 1.0

Optional Accessories

- **TF-PER-R16P-A10**
Riser Card, PCI + PCI-E [x1] for Mini-ITX
- **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-V30C-A11**
Mini-PCI Single Channel Capture Module with Philips SAA7135
- **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
- **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-K002**
Cable Kit for EMB-945T Rev.B