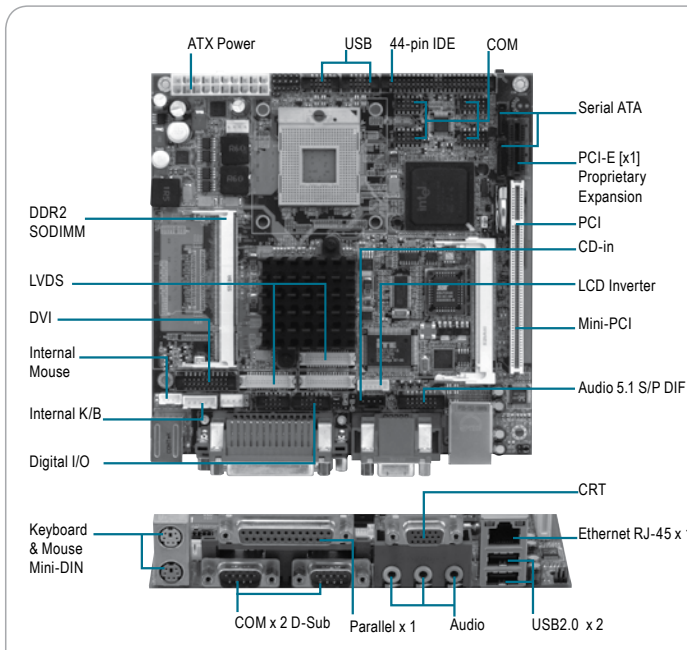


EMB-945T Rev.A

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

05

Embedded Motherboards



Specifications

System	
Form Factor	Mini-ITX
Processor	Supports Socket-478M 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	Marvell® 88E8053, 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 up to 24-bit dual-channel LVDS 2. Chronitel 7307 for DVI support 3. Chronitel 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, S/PDIF in/out

Features

- Socket-478M Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M Processors
- Intel® 945GME + ICH7M
- SODIMM DDR2 400/533/667 Max. 4 GB
- Gigabit Ethernet x 1 (Marvell® 88E8053)
- Up To 24-bit Dual-channel LVDS LCD
- AC97 5.1CH Audio
- Type 2 CompactFlash™ x 1, 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 1 And Mini-PCI x 1
- ATX



Packing List

- 1701440500 44-pin ATA33 Cable
- 1700200200 DVI Cable
- 1709100201 USB Cable
- 1701100206 Serial Port Cable
- 9657666600 Jumper Cap
- 1709070500 Serial ATA Cable
- 1702150150 Serial ATA Power Cable
- M16666006 CPU Fan, Box 60 x 25.4 mm, for Socket-478M
- M20852T000 Metal I/O Bracket
- Quick Installation Guide
- Product CD
- EMB-945T Rev.A

Ordering Information

- TF-EMB-945T-A10
Mini-ITX, Socket-478M, LCD-DVI, DDR2, Gigabit Ethernet, Audio, 6 COM, USB2.0, CompactFlash™, Mini-PCI, PCI-E, ATX, Rev.A1.0

Optional Accessories

- TF-PER-R04P-A11 Riser Card, PCI + PCI-E [x1] for EMB-945T Rev.A
- 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-A10-03 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-A12 Mini-PCI Single Channel Capture Module with Philips SAA7131E Rev.A1.2
- TF-PER-1110-A10 Riser Card for PCI, 2-slot
- TF-PER-C102 PCI-Express Dual Ethernet Board
- 1700200200 DVI Cable