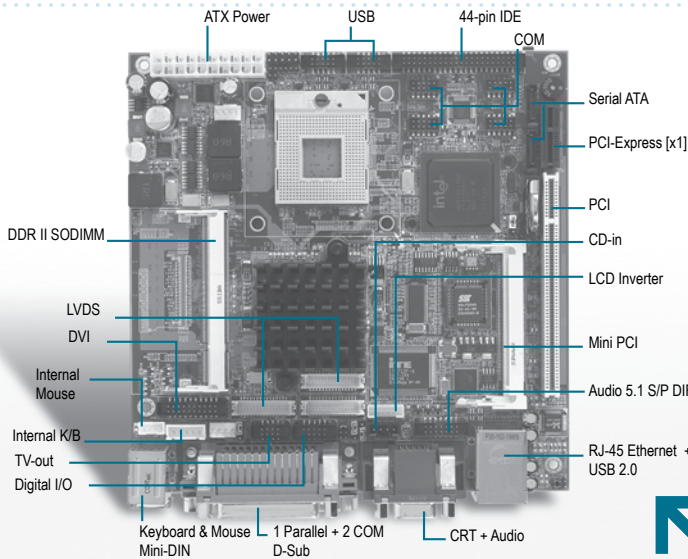


Mini-ITX Board with Intel® Core™ 2 Duo (Merom)/ Core™ Duo/ Core™ Solo/ Celeron® M (Yonah) Processors



Features

- Socket 478 or Onboard Intel® Core™ 2 Duo (Merom)/ Core™ Duo/ Core™ Solo/ Celeron® M (Yonah) Processors
- SODIMM Slot x 2 DDR II 400/533/667 Max. 4GB
- Up to 24-bit Dual-channel LVDS LCD, Shared Memory up to 224MB with DVMT
- Gigabit Ethernet x 1 (Marvell® 88E8053)
- 6CH AC97 Audio
- Type II CompactFlash™
- PCI x 1, PCI-E [x1] x 1 and Mini PCI x 1
- Serial Port x 6, Parallel Port x 1, SATA x 2, ATA33 x 1, USB 2.0 x 6, Digital I/O
- LCD Inverter Connector with Brightness Control
- Enhanced Intel® SpeedStep Technology



Specifications

System	
Form Factor	Mini-ITX
Processor	Supports Socket 478 or onboard Intel® Core™ 2 Duo (Merom)/ Core™ Duo/ Core™ Solo/ Celeron® M (Yonah) Processors up to 2.16GHz with FSB 533/667
System Memory	200-pin DDR II SODIMM x 2, Max. 4GB (DDR II 400/533/667)
Chipset	Intel® 945GM + ICH7M
I/O Chipset	ITE 8712 + Fintek F81216D
Ethernet	Marvell® 88E8053, 10/100/1000Base-TX, RJ-45 x 1
BIOS	AWARD Plug & Play BIOS – 512KB 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 2.16GHz, DDRII 667 1GB +12V @ 2.59A, +5V @ 2.88A, +3.3V@0.6A
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	
Chipset	Intel® 945GM
VGA/LCD Controller	1. Intel® 945GM integrated Graphics, shared memory up to 224MB 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
TV-out	Supports NTSC and PAL standard
I/O	
Storage	EIDE x 1 (UDMA 33), PATA x 1, SATA II x 2, Type II 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 + 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

Packing List

- **1701440500**
44-pin ATA33 Cable
(Optional for TF-EMB-945T-A10-02)
- **1700200200**
DVI Cable
- **1709100201**
USB Cable
- **1701100206**
Serial Port Cable
- **1700080180**
TV-out Cable
- **9657666600**
Jumper Cap
- **1709070500**
Serial ATA Cable
- **1702150150**
Serial ATA Power Cable
- **M16666006**
CPU Fan, box 60 x 25.4mm, for Socket 478
(Optional for TF-EMB-945T-A10-02)
- **Quick Installation Guide**
- **Utility CD**
- **EMB-945T**

Ordering Information

- **TF-EMB-945T-A10**
Mini-ITX, Socket 478M, LCD-DVI-TV, DDRII, GbE, Audio, 6 COM, USB 2.0, CompactFlash™, Mini PCI, PCI-E, ATX, Rev. B1.0
- **TF-EMB-945T-A10-02**
Mini-ITX, Socket 478M, LCD-DVI-TV, GbE, Audio, 6 COM, 6 USB, CompactFlash™, Mini-PCI, PCI-E, ATX, Rev.A1.0 (Basic Cables)

Optional Accessories

- **TF-PER-C10L-A10**
Mini PCI 10/100 Base-TX Ethernet Module with Realtek 8100C
- **TF-PER-C10L-A10-01**
Mini PCI Gigabit Ethernet Ethernet Module with Realtek 8110S
- **TF-PER-C10L-A10-02**
Mini PCI 10/100 Base-TX Ethernet Module with Intel® 82551QM
- **TF-PER-C10L-A10-03**
Mini PCI Gigabit Ethernet 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
- **1700200200**
DVI Cable
- **M16666006**
Metal, A1, Heat sink, Silver, 60 x 60 x 25.4mm for socket 478