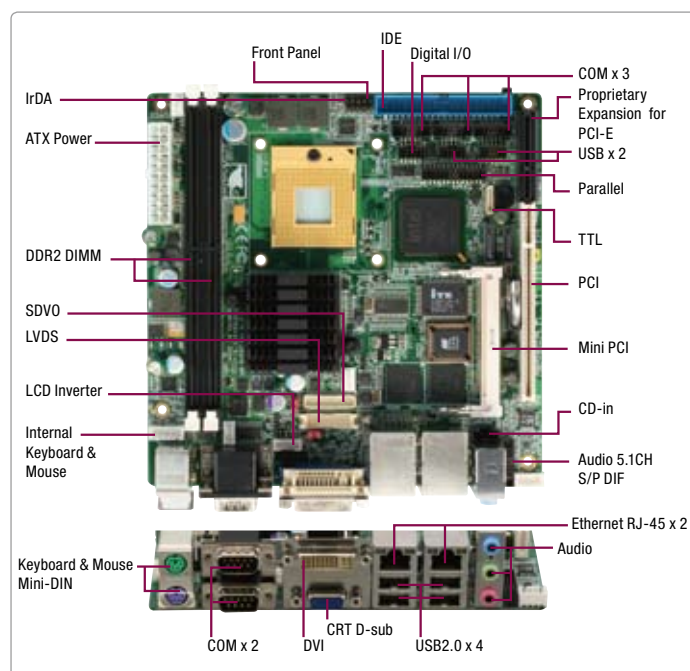




## Specifications

| 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) | T7400 2.16 GHz, DDR2 667 2 GB<br>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<br>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                         | Yes                                                                                                      |
| I/O                         |                                                                                                          |
| Storage                     | EIDE x 1 (UDMA 100 for one device), SATA 1.5Gb/s x 2, Type 2 CompactFlash™ x 1                           |
| Serial Port                 | RS-232 x 4, TTL only x 1, RS-232/422/485 x 1, optional 6th RS-232                                        |
| 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                                              |

## 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 1.5Gb/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, Optional 6th RS-232



## Packing List

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

## Dimension

| 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<br>EIDE x 1<br>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 |

- **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, Dataquard

- **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