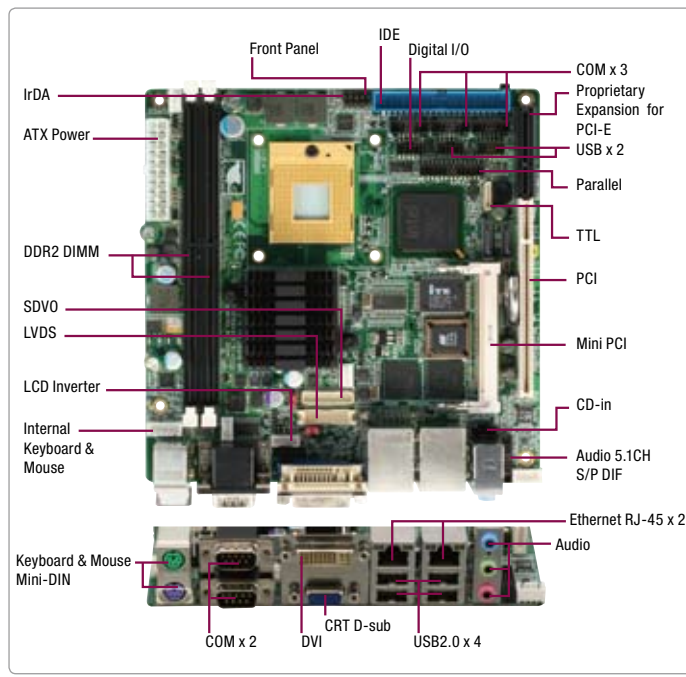


EMB-9458T

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

10

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 2nd 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 |

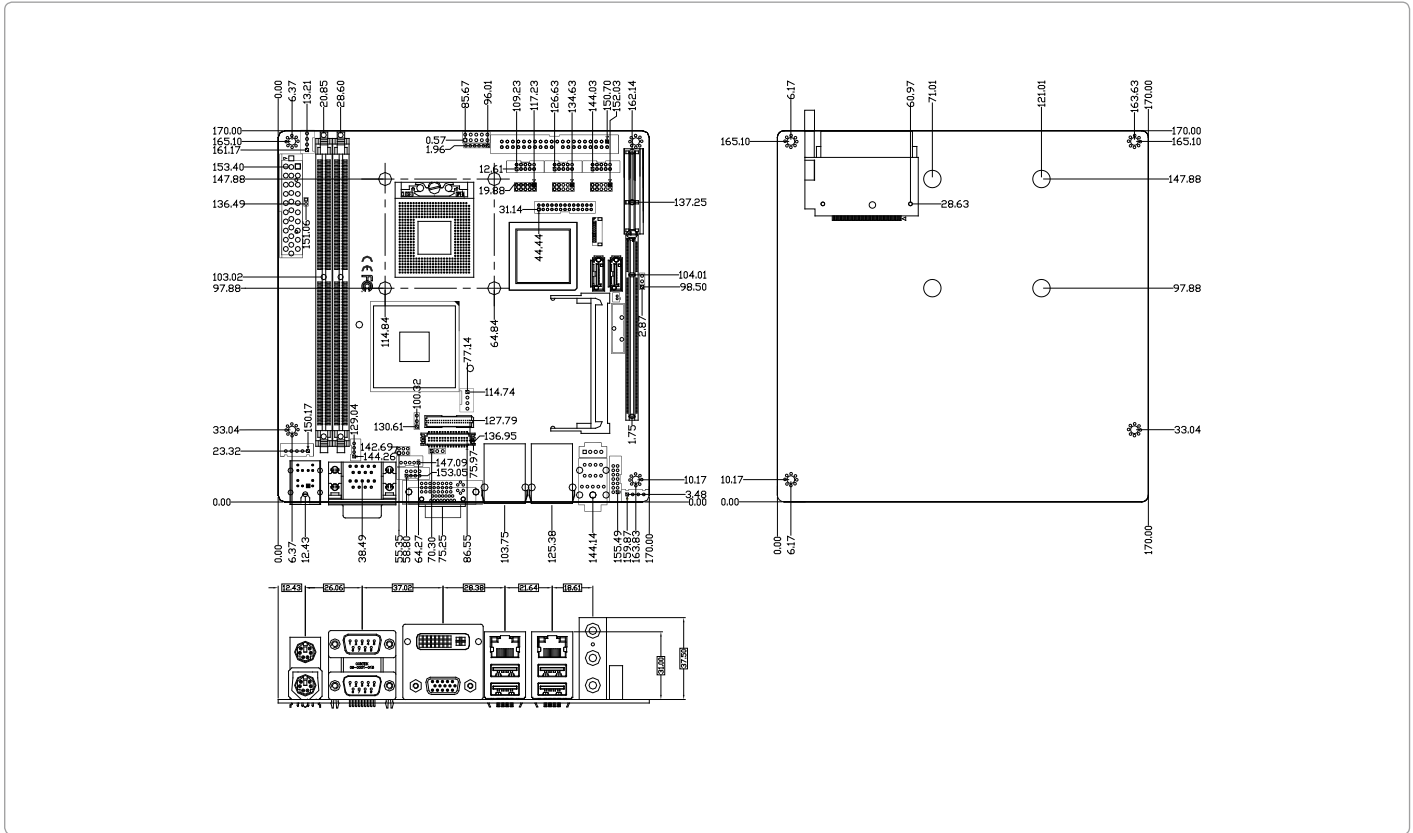
Packing List

- 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