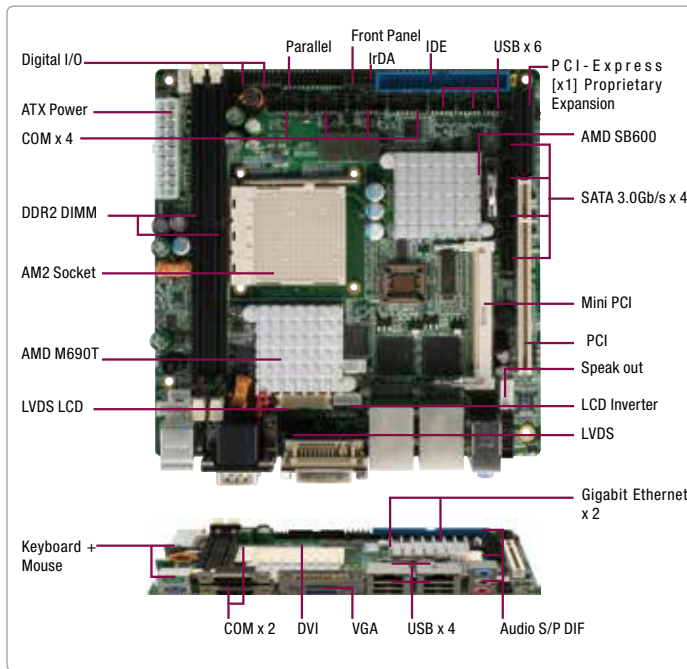


EMB-6908T

Embedded Motherboard with AMD Athlon™ 64/ Athlon™ 64 x2 (AM2 Socket) Processor



Features

- AMD Athlon™ 64/ Athlon™ 64 x2 (AM2 Socket) Processor
- AMD 690E + SB600
- DIMM ECC DDR2 533/667/800MHz Memory, Up To 4GB
- Gigabit Ethernet x 2
- CRT, Up To 24b, 2CH LVDS LCD, DVI
- HD 5.1CH Audio
- EIDE x 1, SATA 3.0Gb/s x 4
- COM x 6, USB2.0 x 10, 16-bit Digital I/O
- PCI x 1, Mini PCI x 1, PCI-Express [x1] x 2 (Through Riser Card)
- TPM 1.2 (Optional)
- 128MB Side Port (Optional)
- ATX Power



Specifications

| System | |
|-----------------------------|--|
| Form Factor | Mini-ITX |
| Processor | AMD Athlon™ 64/ Athlon™ 64 x2 (AM2 Socket) processor (Low-power version only: Athlon 2000+, 2600+, 3400e) |
| System Memory | 240-pin DDR2 533/667/800MHz DIMM x 2, up to 4 GB, supports ECC function |
| Chipset | AMD 690E + SB600 |
| I/O Chipset | ITE IT8712F-A/IX-L |
| Ethernet | Intel® 82573L, 10/100/1000Base-TX, RJ-45 x 2 |
| BIOS | Award |
| Wake On LAN | Yes |
| Watchdog Timer | ITE IT8712F-A/IX-L |
| H/W Status Monitoring | Supports power supply voltages, fan speed and temperature monitoring |
| Expansion Interface | PCI-Express [x1] x 2 (Optional), PCI x 1, Mini PCI x 1 |
| Power Requirement | ATX |
| Power Consumption (Typical) | AMD 3400e 1.8 GHz Dual Core, 1 GB DDR2 800 2.92A@+12V, 2.25A@+5V |
| Board Size | 6.7" (L) x 6.7" (W) (170 mm x 170 mm) |
| Gross Weight | 1.32 lb (0.6 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) | 54,000 |
| Display | |
| | Supports LCD/CRT, LCD/DVI, CRT/DVI, Dual Simultaneous/ Dual View Displays |
| Chipset | AMD 690E integrated |
| Memory | Shared system memory up to 256 MB |
| Resolutions | Up to 2560 x 1440 @ 75Hz for CRT Up to 2048 x 1536 (QXGA) for LCD Up to 1600 x 1200 @ 60 Hz with pixel clock 162 MHz for Single Link DVI Up to 1920 x 1200 @ 60 Hz with pixel clock 154 MHz for Single Link DVI Up to 2560 x 1600 @ 60 Hz with pixel clock 268 MHz for Dual-Link DVI |
| LCD Interface | Up to 24b, 2CH LVDS |
| Side Port | 16-bit memory interface x 1, supports up to 128 MB DDR2 800 memory |
| DVI | DVI-I x 1 |

| I/O | |
|---------------|---|
| Storage | EIDE x 1 (one device), SATA 3.0Gb/s x 4 |
| Serial Port | RS-232 x 5, RS-232/422/485 x 1 |
| Parallel Port | SPP/ EPP/ ECP mode |
| USB | USB2.0 x 10 |
| PS/2 Port | Keyboard x 1, Mouse x 1 |
| Digital I/O | Supports 16-bit (Programmable) |
| IrDA | One IrDA Tx/Rx header |
| Audio | 5.1CH audio |

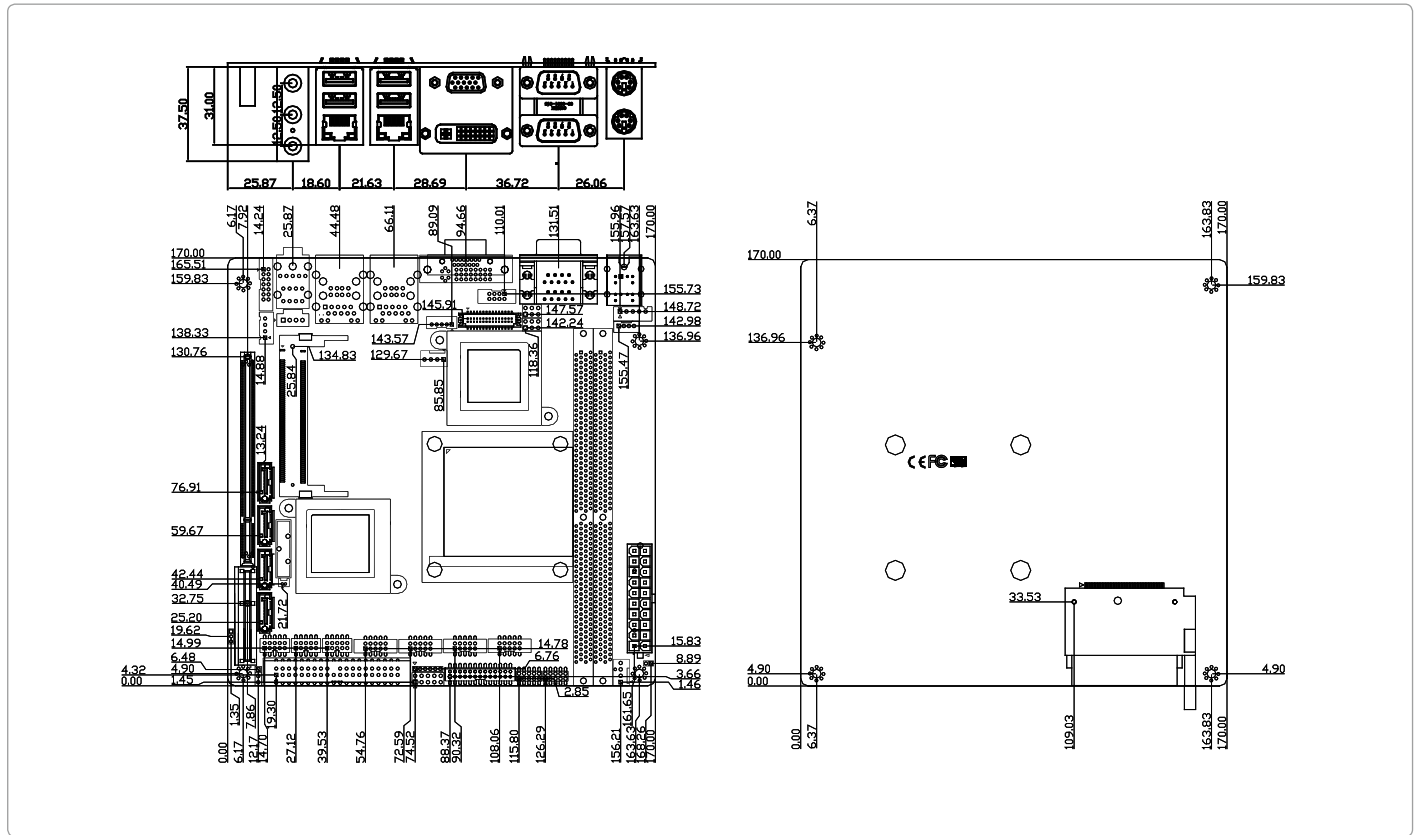
Packing List

- 9657666600
Jumper Cap
- 1701400453
IDE Cable x 1
- 1709070500
SATA Cable x 1
- 1702150150
SATA Power Cable x 1
- M206908T00
Metal I/O Bracket
- Product DVD
- EMB-6908T

EMB-6908T

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-6908T-A13 | Socket | DIMM | Fan | VGA/LVDS/DVI-I | SATA2 x 4, EIDE x 1 | 24b, 2CH | GbE x 2 | 10 | 6 | 0 | PCI-E [x1] x 1, Mini PCI x 1, PCI x 1 | ATX | 0°C ~ 60°C |
| TF-EMB-6908T-A13-01 | Socket | DIMM | Fan | VGA/LVDS/DVI-I | SATA2 x 4, EIDE x 1 | 24b, 2CH | GbE x 2 | 10 | 6 | 0 | PCI-E [x1] x 1, Mini PCI x 1, PCI x 1 | ATX | 0°C ~ 60°C |
| TF-EMB-6908T-A13-02 (Bulk) | Socket | DIMM | Fan | VGA/LVDS/DVI-I | SATA2 x 4, EIDE x 1 | 24b, 2CH | GbE x 2 | 10 | 6 | 0 | PCI-E [x1] x 1, Mini PCI x 1, PCI x 1 | ATX | 0°C ~ 60°C |
| TF-EMB-6908T-A13-03 (Bulk) | Socket | DIMM | Fan | VGA/LVDS/DVI-I | SATA2 x 4, EIDE x 1 | 24b, 2CH | GbE x 2 | 10 | 6 | 0 | PCI-E [x1] x 1, Mini PCI x 1, PCI x 1 | ATX | 0°C ~ 60°C |

• Note

TF-EMB-6908T-A13 is without VGA memory and A13-01 is with VGA memory; A13-02 is bulk pack without VGA memory and A13-03 is bulk pack with memory

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-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

• TF-PER-K000

Cable Kit for EMB-6908T

• 1759269080

CPU Cooler, 60 x 60 x 25.4 mm