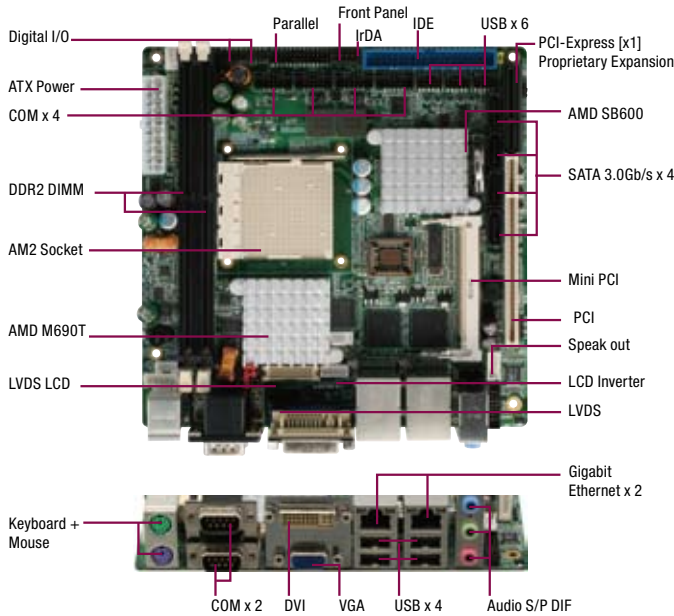


Embedded Motherboard With AMD Athlon™ 64/ Athlon™ 64 x2 (AM2 Socket) Processor



## Features

- AMD Athlon™ 64/ Athlon™ 64 x2 (AM2 Socket) Processor
- AMD 690E + SB600
- DIMM ECC DDR2 533/667/800 Memory, Up To 4 GB
- Gigabit Ethernet x 2
- CRT, Up To 24-bit Dual-channel 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 DIMM x 2, Max. 4 GB (DDR2 533/667/800), 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)	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 24-bit dual-channel LVDS
Side Port	16-bit memory interface x 1, supports up to 128 MB DDR2 800 memory (TF-EMB-6908T-A12-01 only)
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

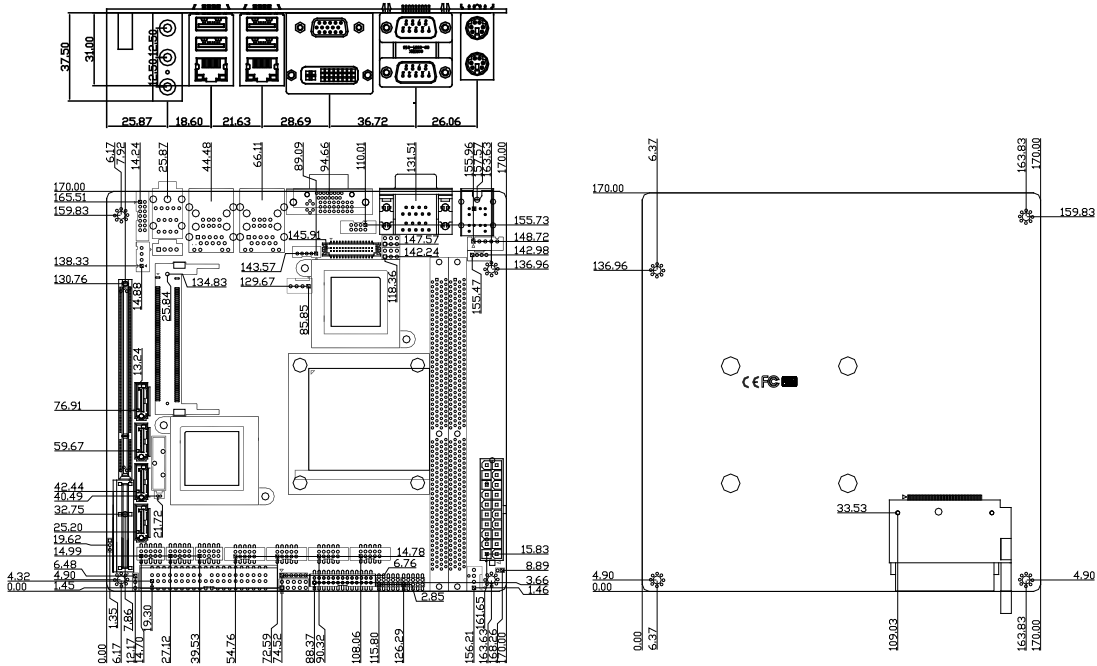
## Packing List

- 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-A12	Socket	DIMM	Fan	VGA/LVDS/DVI-I	SATA2 x 4, EIDE x 1	24-bit Dual-channel	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-A12-01	Socket	DIMM	Fan	VGA/LVDS/DVI-I	SATA2 x 4, EIDE x 1	24-bit Dual-channel	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-A12-02 (Bulk)	Socket	DIMM	Fan	VGA/LVDS/DVI-I	SATA2 x 4, EIDE x 1	24-bit Dual-channel	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-A12-03 (Bulk)	Socket	DIMM	Fan	VGA/LVDS/DVI-I	SATA2 x 4, EIDE x 1	24-bit Dual-channel	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-A12 is without VGA memory and A12-01 is with VGA memory; A12-02 is bulk pack without VGA memory and A12-03 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