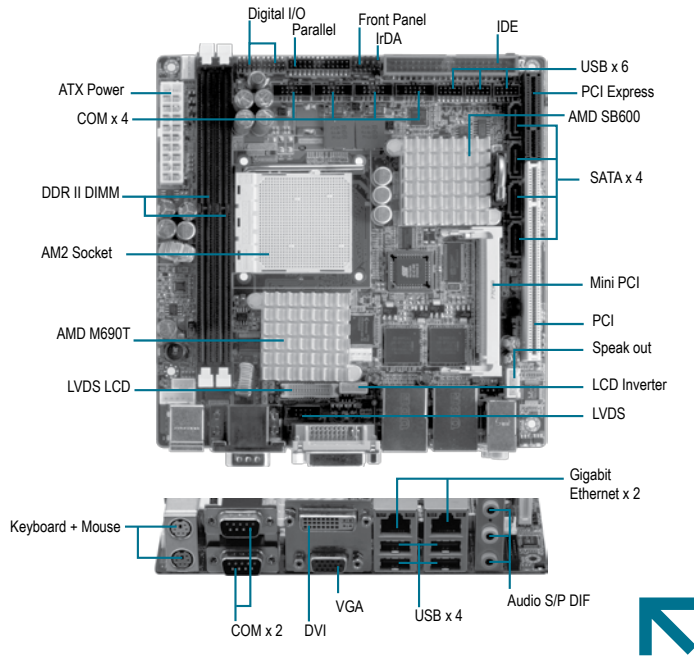


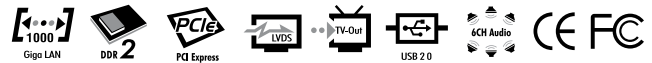
# EMB-6908T

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



## Features

- **AMD Athlon™ 64/ Athlon™ 64 x2 (AM2 Socket) Processors**
- **AMD 690E + SB600**
- **ECC Dual-channel DDRII 533/667 Memory, Up To 4GB**
- **Gigabit Ethernet x 2**
- **CRT, Up to 24-bit Dual-channel LVDS LCD, DVI**
- **HD 5.1CH Audio**
- **EIDE x 1, SATA x 4**
- **COM x 6, USB2.0 x 10, 16-bit Digital I/O**
- **PCI x 1, Mini PCI x 1, PCI-E [x1] x 2 in PCI-E [x4] Slot (Through Riser Card)**
- **TPM 1.2 (Optional)**
- **ATX**



## Specifications

System	
Form Factor	Mini-ITX
Processor	AMD Athlon™ 64/ Athlon™ 64 x2 (AM2 Socket) processors (Low-power version only: Athlon 2000+, 2600+, 3400e)
System Memory	240-pin DDRII DIMM x 2, Max. 4GB (DDRII 533/667), supports ECC function
Chipset	AMD M690E + 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-E [x1] x 2 (Optional), PCI x 1, Mini PCI x 1
Power Requirement	ATX
Power Consumption (Typical)	3400e 1.8GHz Dual Core, 1GB DDRII 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)	90,000
Display	
	Supports LCD/CRT, LCD/DVI, CRT/DVI, Dual Simultaneous/ Dual View Displays
Chipset	AMD M690E integrated
Memory	Shared system memory up to 256MB
Resolutions	Up to 2560 x 1440 @ 75Hz for CRT Up to 2048 x 1536 (QXGA) for LCD Up to 1600 x 1200 @ 60Hz with pixel clock 162MHz for Single Link DVI Up to 1920 x 1200 @ 60Hz with pixel clock 154MHz for Single Link DVI Up to 2560 x 1600 @ 60Hz with pixel clock 268MHz for Dual-Link DVI
LCD Interface	Up to 24-bit dual-channel LVDS
Side Port	1 x 16-bit memory interface, supports up to 128MB DDRII 800 memory (TF-EMB-6908T-A12-01 only)
DVI	DVI-I x 1
I/O	
Storage	EIDE x 1 (one device), SATA 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
- **Quick Installation Guide**
- **Utility DVD**
- **EMB-6908T**

## Ordering Information

- **TF-EMB-6908T-A12**  
Mini-ITX, AM2, LCD-DVI, DDRII, 2 Gigabit Ethernet, Audio, 6COM, USB2.0, CompactFlash™, Mini-PCI, PCI-E, Rev.A1.2
- **TF-EMB-6908T-A12-01**  
Mini-ITX, AM2, FB, LCD-DVI, DDRII, 2 Gigabit Ethernet, Audio, 6COM, USB2.0, CompactFlash™, Mini-PCI, PCI-E, Rev.A1.2

## 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-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
- **TF-PER-K000:**  
Cable Kit for EMB-6908T
- **1759269080**  
CPU Cooler, 60 x 60 x 25.4 mm
- **1759269081**  
CPU Cooler, 60 x 60 x 25.5 mm, DATAGUARD