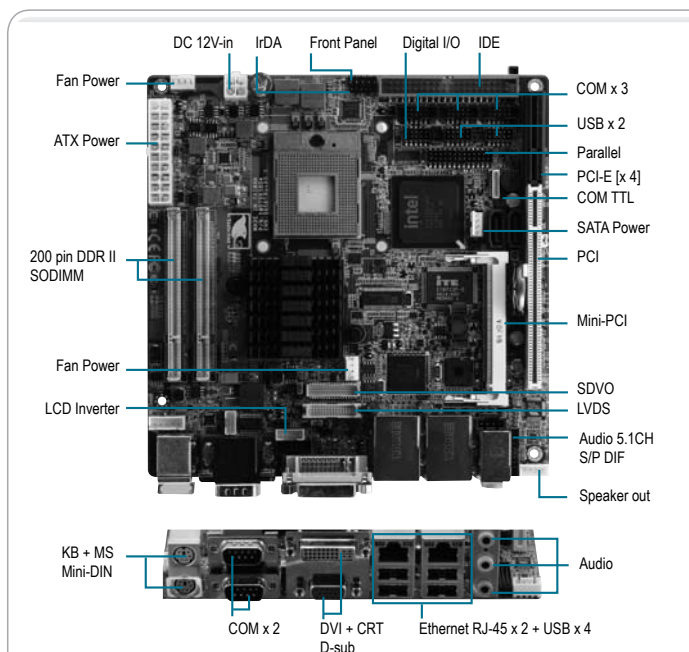


■ Embedded Motherboard With Intel® Core™ 2 Duo/ Celeron® M (Socket-P Based) Processors

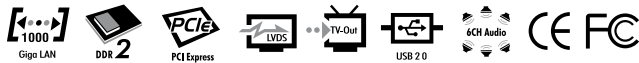


Specifications

System	
Form Factor	Mini-ITX
Processor	Intel® Core™ 2 Duo/ Celeron® M (Socket-P based) Processors
System Memory	200 pin DDRII SODIMM x 2, Max. 4 GB (DDRII 533/667)
Chipset	Intel® GME965 + ICH8M (-E optional for RAID)
I/O Chipset	ITE8712
Ethernet	Intel® 82566MM/82573L for 10/100/1000Base-TX, RJ-45 x 2
BIOS	Award Plug & Play SPI BIOS - 2 MB ROM
Wake on LAN	Yes
Watchdog Timer	ITE.IT8712F/KX-L
H/W Status Monitoring	Supports power supply voltages and temperature monitoring
Expansion Interface	PCI x 1, Mini-PCI x 1 & PCI-Express [x4] slot x 1 (through Riser card)
Battery	Lithium battery
Power Requirement	DC 12V / AT/ ATX
Power Consumption (Typical)	T7500 2.2 GHz, DDRII 800 2 GB 3.81A@-12V (DC 12V PW)
Board Size	6.7" (L) x 6.7" (W) (170mm x 170mm)
Gross Weight	1.1lb (0.5kg)
Operating Temp.	32°F ~ 140°F (0°C ~ 60°C)
Storage Temp.	-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, LCD/TV, CRT/DVI, TV/DVI, Dual Simultaneous/ Dual View Displays	
Chipset	Intel® GME965 integrated
Memory	Shared system memory up to 384 MB/DVMT 4.0
Resolutions	Up to 2048 x 1536 (QXGA) @ 60 Hz for CRT Up to 2048 x 1536 (QXGA) for LCD
LCD Interface	Up to 24-bit dual-channel LVDS
DVI	DVI-I x 1
SDVO	Supports SDVO x 1
TV-Out	Intel® GME965 integrated, supports NTSC/ PAL/ HDTV HDTV supports: 480p/720p/1080i/1080p
I/O	
Storage	EIDE x 1 (shared signals with CompactFlash™), SATA II x 2
Serial Port	RS-232 x 4, RS-232/422/485 x 1, TTL 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	Support 8-bit (Programmable)
IrDA	One IrDA Tx/Rx header
Audio	HD 5.1 channel

Features

- Intel® Core™ 2 Duo/ Celeron® M (Socket-P Based) Processors
- Intel® GME965 + ICH8M (-E Optional For RAID)
- SODIMM DDRII 533/667 Memory, Max. 4 GB
- Gigabit Ethernet x 2
- 18/24-bit Dual-Channel LVDS, DVI/TV/CRT, SDVO Connector For 2nd 18/24-bit Dual-Channel LVDS/DVI
- HD 5.1CH Audio
- SATA II x 2, EIDE x 1, CompactFlash™
- USB2.0 x 8, COM x 5, Parallel x 1, 8-bit Digital I/O
- PCI x 1, Mini-PCI x 1 & PCI-Express [x4] x 1 (Through Riser Card)
- DC12V/ AT/ATX
- SATA Power Connector Onboard x 1, Optional RAID, TPM



Packing List

- **1709070500**
SATA Cable
- **1702151200**
Onboard SATA Power Cable
- **M206908T00**
Metal I/O Bracket
- **Quick Installation Guide**
- **Utility CD**
- **EMB-9658T**

Ordering Information

- **TF-EMB-9658T-A10**
Mini-ITX, Socket-P, LVDS-DVI-TV, DDRII, 2 Gigabit Ethernet, Audio, 5COM, 8USB, CompactFlash™, PCI, Mini-PCI, PCI-Express [x4], ATX, Rev. A1.0
- **TF-EMB-9658T-A10-01**
Mini-ITX, Socket-P, LVDS-DVI-TV, DDRII, 2 Gigabit Ethernet, Audio, 5COM, 8USB, CompactFlash™, PCI, Mini-PCI, PCI-Express [x4], DC12V, Rev. A1.0
- **TF-EMB-9658T-A10-02**
Mini-ITX, Socket-P, LVDS-DVI-TV, DDRII, 2 Gigabit Ethernet, Audio, 5COM, 8USB, CompactFlash™, PCI, Mini-PCI, PCI-Express [x4], ATX, Rev. A1.0, Bulk Pack
- **TF-EMB-9658T-A10-03**
Mini-ITX, Socket-P, LVDS-DVI-TV, DDRII, 2 Gigabit Ethernet, Audio, 5COM, 8USB, CompactFlash™, PCI, Mini-PCI, PCI-Express [x4], DC12V, Rev. A1.0, Bulk Pack

Optional Accessories

- **1759294520**
Cooler, Silver, 60mm x 60mm x 23mm, Dataguard
- **M166666006**
Metal, A1, Heat Sink, Silver, 60mm x 60mm x 25.4mm for Socket-478
- **1701400453**
IDE cable, 40 p, 45cm, 2.54mm IDC
- **1700080180**
TV Out Cable, 18cm
- **1700140164**
Audio 5.1 Channel /SPDIF, 16cm
- **1701260200**
Printer Cable 20cm
- **1701100206**
COM Port Cable 20cm
- **1709100201**
Usb Cable, 20cm, W/Bracket
- **TF-PER-R16P-A10**
Riser Card, PCI + PCI-E [x4]
- **TF-PER-V03B-A10**
SDVO to DVI Module
- **TF-PER-V04B-A10**
SDVO to LVDS Module
- **TF-PER-V30C-A11**
Mini-PCI Single Channel Capture Module with Philips SAA7135
- **TF-PER-1110-A10**
Riser Card for PCI, 2-slot