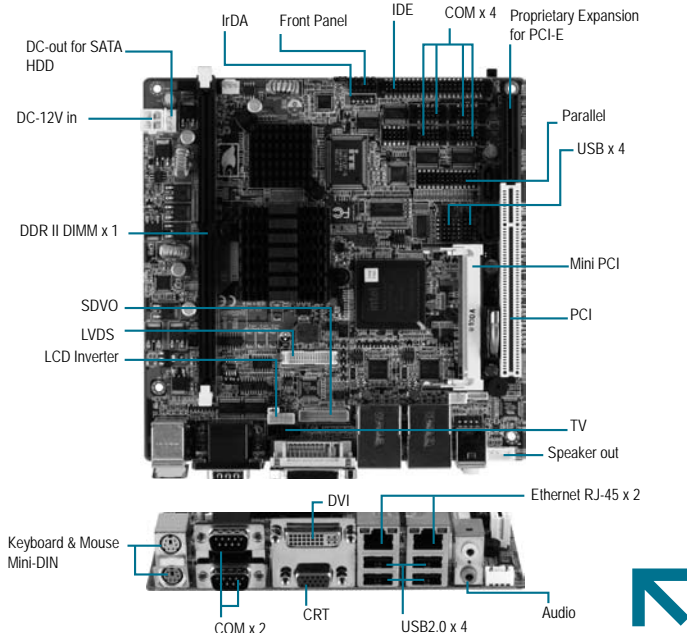


EMB-9459T

Embedded Motherboard with Onboard Intel® Atom™ N270 Processor



Features

- Onboard Intel® Atom™ N270 Processor (Fanless)
- Intel® 945GSE + ICH7M
- DDRII 400/533 Memory, Max. 2GB
- Gigabit Ethernet x 2
- CRT, TV-out, 18-bit Dual-channel LVDS, DVI, SDVO Connector x 1
- AC97 2CH Audio SIP DIF
- SATA II x 2, EIDE x 1 & CompactFlash™ Type II x 1
- USB2.0 x 8, COM x 6, Parallel x 1
- PCI x 1, Mini PCI x 1, PCI-E [x1] x 2 in PCI-E [x4] (Through Riser Card)
- +12V Only Operation
- Onboard SATA Power Connector x 1
- Optional TPM



Specifications

| System | |
|-----------------------------|--|
| Form Factor | Mini-ITX |
| Processor | Onboard Intel® Atom™ N270 Processor 1.6GHz, FSB 533MHz |
| System Memory | 240-pin DDRII DIMM x 1, Max. 2GB (DDRII 400/533) |
| Chipset | Intel® 945GSE + ICH7M |
| I/O Chipset | ITE8712 |
| Ethernet | Realtek 8111C for 10/100/1000Base-TX, RJ-45 x 2 |
| BIOS | Award Plug & Play SPI BIOS - 2MB ROM |
| Wake On LAN | Yes |
| Watchdog Timer | Generates a time-out system reset |
| H/W Status Monitoring | Supports power supply voltages and temperature monitoring |
| Expansion Interface | Mini PCI x 1, PCI-E [x1] slot x 2 in PCI-E [x4] socket (through Riser Card) |
| Battery | Lithium battery |
| Power Requirement | DC 12V in |
| Power Consumption (Typical) | Intel® Atom™ N270 1.3A @+12V, 0.3A@+5V |
| Board Size | 6.7" (L) x 6.7" (W) (170mm x 170mm) |
| Gross Weight | 1.2 lb (0.5Kg) |
| 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) | 66,000 |
| Display | Supports CRT/LCD, CRT/DVI, LCD/DVI, CRT/TV, LCD/TV simultaneous/dual view displays |
| Chipset | Intel™ 945GSE integrated |
| Memory | Shared system memory up to 224MB / DVMT3.0 |
| Resolutions | Up to 2048 x 1536 @ 32bpp colors for CRT Up to 1600 x 1200 @ 18bpp colors for LCD |
| LCD Interface | 18-bit dual-channel LVDS, optional 24-bit dual-channel by SDVO module PER-V04B (DVI exclusive) |
| DVI | DVI-I x 1 |
| TV-out | Supports NTSC & PAL Standard S-terminal and Composite video |
| I/O | |
| Storage | EIDE x 1 (UDMA-100 for one device), SATA II x 2, CompactFlash™ x 1 |
| Serial Port | RS-232 x 5, RS-232/422/485 x 1 |
| Parallel Port | SPP/EP/ECP mode |
| USB | USB2.0 x 8 |
| PS/2 Port | Keyboard x 1, Mouse x 1 |
| Audio | Line-in, Line-out, Mic-in & CD-in, Stereo Amplifier included |

Packing List

- 1701400453
IDE Cable
- 1709070500
SATA cable
- 1702151200
Onboard SATA Power Cable
- 9657666600
Jumper Cap
- M206908T00
Metal I/O Bracket
- Quick Installation Guide
- Utility CD
- EMB-9459T

Ordering Information

- **TF-EMB-9459T-A10 (Fanless)**
Mini-ITX, N270 1.6G, LVDS-DVI-TV, DDRII, 2 Gigabit Ethernet, Audio, 6 COM, 8 USB, CompactFlash™, Mini-PCI, PCI, PCI-E, DC12V, Rev. A1.0
- **TF-EMB-9459T-A10-01 (Fanless)**
Mini-ITX, N270 1.6G, LCD-SDVO-TV, DDRII, 2 Gigabit Ethernet, Audio, 6 COM, 8 USB, CompactFlash™, Mini-PCI, PCI, PCI-E, DC12V, Rev. A1.0, Bulk P
- **TF-EMB-9459T-A10-02 (Fanless)**
Mini-ITX, N270 1.6G, LCD-DVI-TV, DDRII, 2 Gigabit Ethernet, Audio, 6 COM, 8 USB, CompactFlash™, Mini-PCI, PCI, PCI-E, DC12V, Rev. A1.0, Bulk P
- **TF-EMB-9459T-A10-03 (Fanless)**
Mini-ITX, N270 1.6G, LCD-SDVO-TV, DDRII, 2 Gigabit Ethernet, Audio, 6 COM, 8 USB, CompactFlash™, Mini-PCI, PCI, PCI-E, DC12V, Rev. A1.0, Bulk P

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-V04B-A10**
SDVO to LVDS 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