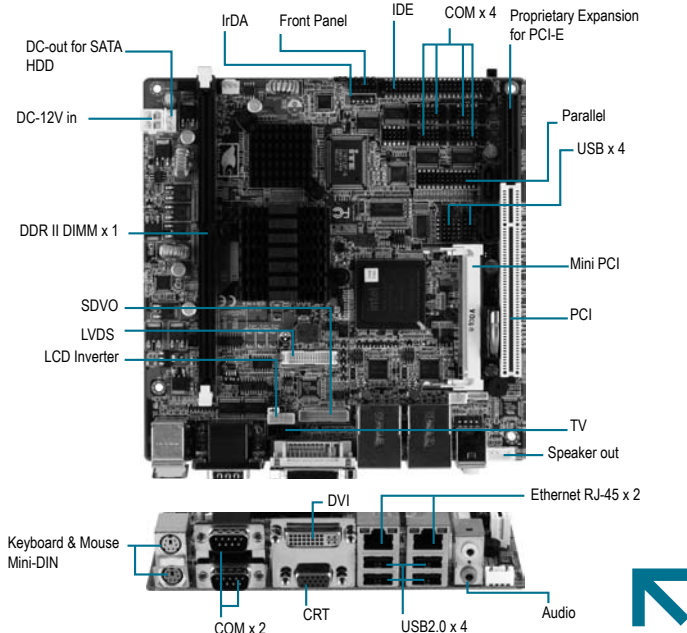


EMB-9459T

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
- HD 2CH Audio S/P DIF
- SATA 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	ITE.IT8712F/KX-L
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 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
Digital I/O	Supports 8-bit (programmable)
IrDA	One IrDA Tx/Rx header
PS/2 Port	Keyboard x 1, Mouse x 1
Audio	Line-out, Mic-in (or Line-in) & CD-in, Stereo Amplifier included

Packing List

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

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
- **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
- **TF-EMB-9459T-A10-04 (Fanless)**
Mini-ITX, N270 1.6G, LCD-TV, DDRII, 2 Gigabit Ethernet, Audio, 2 COM, 2 USB, PCI, DC12V, Rev. A1.0, Basic Feature Bulk P

Optional Accessories

- **1701440500**
IDE Cable, 44 p, 2.54mm, 30+20 cm, IDC
- **1700080180**
8 Pins TV-out Cable
- **1709100208**
USB Cable
- **1701260200**
Printer Cable
- **1701100206**
COM Cable
- **1709030150**
SPDIF Cable
- **1700060156**
Audio Cable Support 5.1CH
- **TF-PER-R16P-A10**
Riser Card, PCI + PCI-E [x4]
- **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