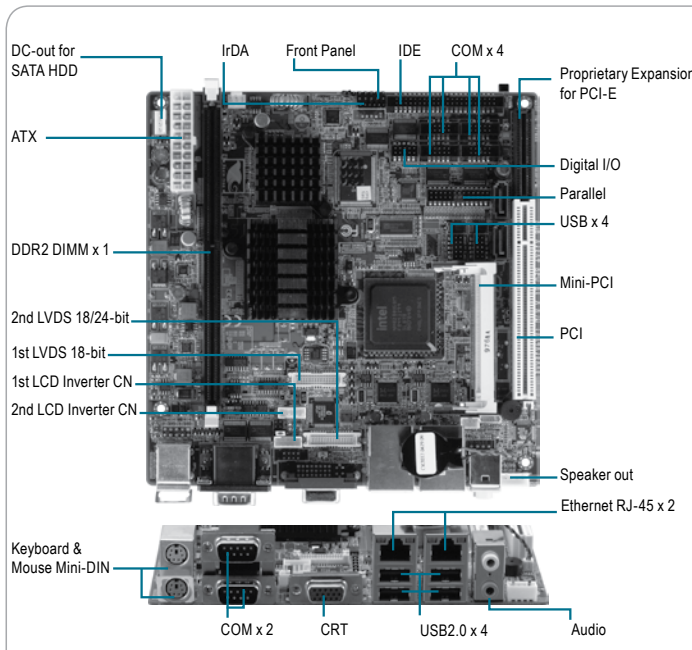


# EMB-9459T Rev. B

Embedded Motherboard With Onboard Intel® Atom™ N270 Processor



## Specifications

System	
Form Factor	Mini-ITX
Processor	Onboard Intel® Atom™ N270 Processor 1.6 GHz, FSB 533 MHz
System Memory	240-pin DDR2 DIMM x 1, Max. 2 GB (DDR2 400/533)
Chipset	Intel® 945GSE + ICH7M
I/O Chipset	ITE8712
Ethernet	Realtek 8111C for 10/100/1000Base-TX or Realtek 8102E for 10/100Base-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	Mini-PCI x 1, PCI-E [x1] slot x 2 in PCI-E [x4] socket (through Riser Card)
Battery	Lithium battery
Power Requirement	ATX (+3.3V, +5V, +12V)
Power Consumption (Typical)	Intel® Atom™ N270, DDR2 800 1GB, 0.65A@+12V, 1.02A@+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 simultaneous/ dual view displays
Chipset	Intel® 945GSE integrated
Memory	Shared system memory up to 224 MB/ 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, 18/24-bit dual-channel (DVI removed)
DVI	DVI-I x 1 (optional)
I/O	
Storage	EIDE x 1 (UDMA-100 for one device), SATA 1.5Gb/s 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, HD 5.1 channel

## Features

- Onboard Intel® Atom™ N270 Processor (Fanless)
- Intel® 945GSE + ICH7M
- DIMM DDR2 400/533, Max. 2 GB
- Gigabit Ethernet x 2
- CRT, 18-bit Dual-channel LVDS, 2<sup>nd</sup> 18/24-bit Dual-Channel LVDS x 1 Or DVI
- HD 5.1CH Audio, S/P DIF, Stereo Amplifier
- SATA 1.5Gb/s x 2, EIDE x 1 & CompactFlash™ Type 2 x 1
- USB2.0 x 8, COM x 6, Parallel x 1
- PCI x 1, Mini-PCI x 1, PCI-E [x1] x 2 (Through Riser Card)
- ATX Operation
- Onboard SATA Power Connector x 1
- Optional TPM



## Packing List

- 1709070500  
SATA Cable
- 1702151200  
Onboard SATA Power Cable
- 9657666600  
Jumper Cap
- M209459000  
Metal I/O Bracket
- Quick Installation Guide
- Product CD
- EMB-9459T Rev.B

## Ordering Information

- **TF-EMB-9459T-B10**  
Mini-ITX, N270-1.6 GHz, 2LCD, DDR2, 2 Gigabit Ethernet, Audio, 6 COM, 8 USB, CompactFlash™, mini-PCI, PCI, PCI-Express, ATX., Rev. B1.0
- **TF-EMB-9459T-B10-01**  
Mini-ITX, N270-1.6 GHz, 2LCD, DDR2, 2 Gigabit Ethernet, Audio, 6 COM, 8 USB, CompactFlash™, mini-PCI, PCI, PCI-Express, ATX., Rev. B1.0, Bulk Pack

## Optional Accessories

- 1701440500  
IDE Cable, 44 p, 2.54mm, 30+20 cm, IDC
- 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