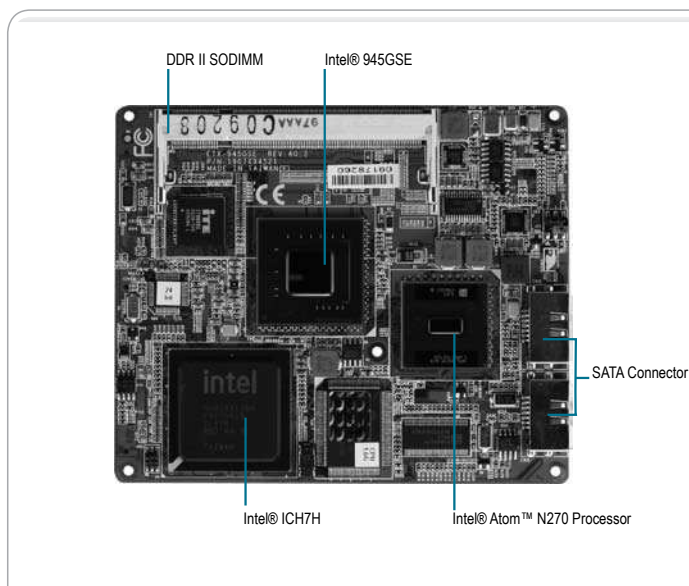


■ ETX CPU Module with Onboard Intel® Atom™ N270 Processor



Features

- Onboard Intel® Atom™ N270 Processor
- Intel® 945GSE + ICH7M
- SODIMM DDRII 400/533 Memory, Max. 2 GB
- 10/100Base-TX Ethernet
- CRT, Up to 24-bit Dual-channel LVDS LCD, TV, SDVO Connector x 1
- AC97 2.3 CODEC 2CH Audio
- PATA x 1, SATA II x 2 (on Module)
- USB2.0 x 4, COM x 2
- +5V Only Operation



Specifications

System	
Form Factor	ETX
Processor	Onboard Intel® Atom™ N270 Processor 1.6 GHz, FSB 533 MHz
System Memory	200-pin DDRII SODIMM x1, Max. 2 GB (DDRII 400/533)
Chipset	Intel® 945GSE + ICH7M
I/O Chipset	WINBOND W83627HG
Ethernet	Intel® EP82562ET, 10/100Base-TX
BIOS	Award, SPI type, 2 MB ROM
Wake on LAN	Yes
Watchdog Timer	Generates a time-out system reset
H/W Status Monitoring	Supports power supply voltages, fan speed and temperature monitoring
Expansion Interface	32-bit PCI x 4 8-bit/ 16-bit ISA SMBus x 1 I2C x 1
Battery	Lithium battery
Power Requirement	+5V DC
Power Consumption (Typical)	Atom™ N270 1.6 GHz, DDRII 667 2 GB 0.22A@+12V, 2.21A@+5V W/ TF-ECB-902M-A10
Board Size	4.5" (L) x 3.74" (W) (114mm x 95mm)
Gross Weight	0.66 lb (0.3kg)
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)	98,000
Display	
	Supports CRT/LCD, CRT/TV, LCD/TV Dual Simultaneous/ Dual View Displays
Chipset	Intel® 945GSE integrated
Memory	Shared system memory up to 224 MB
Resolutions	Up to 2048 x 1536 (QXGA) for CRT Up to 1600 x 1200 (UXGA) for LCD
LCD Interface	18-bit dual-channel LVDS (TF-ETX-945GSE-A10) 24-bit dual-channel LVDS (TF-ETX-945GSE-A10-01)
SDVO port	SDVO x 1 for TF-ETX-945GSE-A10
TV-Out	Intel® 945GSE integrated, support NTSC/PAL Support Composite Video, S-Video on the carrier board
I/O	
Storage	PATA x 1 (two devices), SATA II x 2 (on module)
Serial Port	2
Parallel Port	1
Universal Serial Bus	USB2.0 x 4
PS/2 Port	Keyboard x 1, Mouse x 1
IrDA	One IrDA Tx/Rx header
Audio (Daughter Board)	Mic-in, Line-in, Line-out

Packing List

- M2.5 Screw x 4
- Utility CD
- ETX-945GSE

Ordering Information

- **TF-ETX-945GSE-A10**
ETX Board, N270 Onboard, DDRII, LAN, Audio, 2COM, USB2.0, Rev. A1.0 (18-bit Dual Channel LVDS)
- **TF-ETX-945GSE-A10-01**
ETX Board, N270 Onboard, DDRII, LAN, Audio, 2COM, USB2.0, Rev. A1.0 (24-bit Dual Channel LVDS)

Optional Accessories

- **TF-ECB-902M-A10**
ETX Carrier Board, LAN, Audio, 4COM, USB2.0, PCI, ISA, AT/ATX, Rev.A1.0 (For ETX-945GSE, ETX-CX700M, ETX-855, ETX-821, ETX-701, ETX-700)
- **TF-PER-A047**
Passive Heatsink, for Onboard CPU
- **TF-PER-A049**
Heat Spreader Kit, for Onboard CPU
- **TF-PER-V03B-A10-02**
SDVO to DVI Module
- **TF-PER-V04B-A10-02**
SDVO to LVDS Module