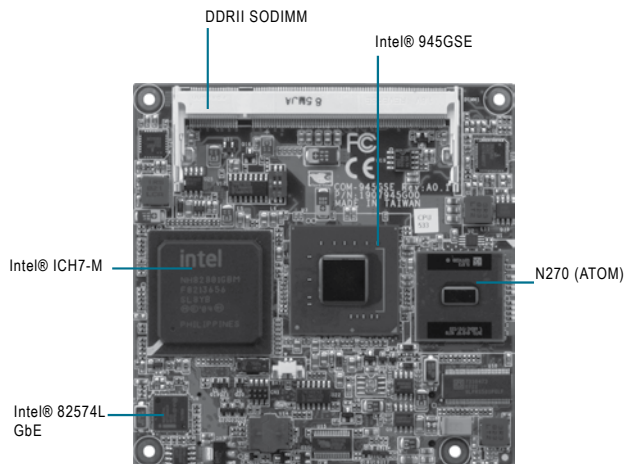


COM-945GSE

Intel® N270 (ATOM) Processor

06

COM Express CPU Modules



Features

- Intel® N270 (ATOM: Diamondville) Processor
- DDRII 400/533 Memory, Up to 2GB
- CRT/ 18-bit Dual-channel LVDS LCD/ TV
- Gigabit Ethernet
- High Definition Audio Interface
- Wide DC Input Range, +8.5VDC to +19VDC
- COM Express Pin-out Type II
- Compact Module Size, 95mm x 95mm



Specifications

System	
Form Factor	COM Express compact module, Pin-out Type II
Processor	Intel® N270 (ATOM: Diamondville) Processor N270: 1.6GHz/533MHz FSB
System Memory	200-pin DDRII SODIMM x 1, Max. 2GB (DDRII 400/533)
Chipset	Intel® 945GSE + ICH7-M (82801GBM)
I/O Chipset	ICH7-M (ITE IT8712F-A/IX-L on the carrier board)
Ethernet	Intel® 82574L, Gigabit Ethernet
BIOS	AWARD BIOS v8.0 SPI type, 2MB ROM
EEPROM	Atmel AT24C02, save BIOS and configuration data
Wake on LAN	Yes
Watchdog Timer	Fintek F75111
H/W Status Monitoring	Supports CPU temperature monitoring
Expansion Interface	PCI-Express [x1] x 3 (82801GBM) PCI-Express [x1] x 5 (82801GHM) (Optional) 32-bit PCI x 4 LPC bus x 1 SMBus x 1 I2C x 1
Power Requirement	Wide DC input range, +8.5VDC to +19VDC 2-pin wafer for RTC battery
Power Consumption (Typical)	—
Board Size	3.75"(L) x 3.75"(W) (95 mm x 95 mm)
Gross Weight	0.55 lb (0.25 Kg)
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)	—
Display	
	Supports CRT/LCD, CRT/TV, LCD/TV simultaneous/ dual view displays
Chipset	Intel® 945GSE integrated
Memory	Shared system memory up to 224MB
Resolutions	Up to 2048 x 1536 (QXGA) for CRT Up to 1600 x 1200 (UXGA) for LCD
LCD Interface	18-bit dual-channel LVDS
SDVO	Supports SDVO x 1
TV-Out	Intel® 945GSE integrated, supports NTSC/ PAL Supports Composite Video, S-Video, Component Video (YPbPr) on carrier board
I/O	
Storage	PATA x 1: 2 devices SATA x 2: 2 devices
USB	USB 2.0 x 8
Audio	High definition audio
GPIO	Up to 4 in or 4 out

Packing list

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

Ordering Information

- **TF-COM-945GSE-A10**
COM Express, N270, SDVO, DDRII SO-DIMM, GbE, SATA, USB2.0, Rev.A1.0

Optional Accessories

- **TF-ECB-916M-A10-01**
COM Express Carrier Board, microATX, Dual GbE, 7.1CH Audio, 4COM, USB, PCI-E, AT/ATX, Rev.A1.0