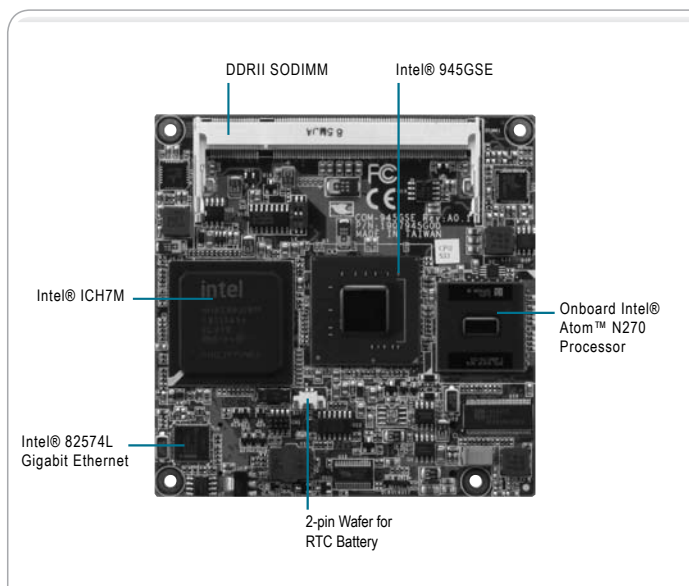


## COM Express CPU Module With Onboard Intel® Atom™ N270 Processor



## Specifications

System	
Form Factor	COM Express compact module, Pin-out Type II
Processor	Onboard Intel® Atom™ N270 Processor, 1.6 GHz, FSB 533 MHz
System Memory	200-pin DDRII SODIMM x 1, Max. 2 GB (DDRII 400/533)
Chipset	Intel® 945GSE + ICH7M
I/O Chipset	ICH7M
Ethernet	Intel® 82574L, 10/100/1000Base-TX
BIOS	Award BIOS v8.0 SPI type, 2 MB ROM
EEPROM	Atmel® AT24C02, save BIOS and configuration data (Optional)
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
Power Requirement	Wide DC input range, +8.5V to +19V (Optional)
	Nominal: +12V 2-pin wafer for RTC battery
Power Consumption (Typical)	Intel® Atom™ N270 1.6 GHz, DDRII 533 1 GB 1.31A @ +12V 0.36A @ +5V (w/ECB-916M)
Board Size	3.74" (L) x 3.74" (W) (95mm x 95mm)
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)	100,000
Display	
Chipset	Intel® 945GSE integrated
Memory	Shared system memory up to 224 MB/ DVM T 3.0
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 (Two devices) SATA x 2
USB	USB 2.0 x 8
Audio	High definition audio
GPIO	Up to 4 in or 4 out

## Features

- Onboard Intel® Atom™ N270 Processor
- Intel® 945GSE + ICH7M
- SODIMM DDRII 400/533 Memory, Max. 2 GB
- Gigabit Ethernet
- CRT, 18-bit Dual-channel LVDS LCD, TV
- High Definition Audio Interface
- PATA x 1, SATA x 2
- USB2.0 x 8
- PCI x 4, PCI-Express [x1] x 3
- Wide DC Input Range, +8.5V To +19V (Optional)
- COM Express Pin-out Type II
- Compact Module Size, 95mm x 95mm



For Wide Temperature series of this model, please refer to Chapter 1 - Wide Temperature Boards, to get detailed specification of COM-945GSEW1.

## Packing list

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

## Ordering Information

- **TF-COM-945GSE-A11**  
COM Express CPU Module, Onboard Intel® Atom™ N270, SDVO, DDRII SODIMM, Gigabit Ethernet, SATA, USB2.0, Rev. A1.1

## Optional Accessories

- **TF-ECB-916M-A10-02**  
COM Express Carrier Board, microATX, Dual Gigabit Ethernet, 7.1CH Audio, 4COM, USB, PCI-Express, AT/ATX, 6th Standoff, Rev. A1.0
- **TF-PER-A060**  
CPU Cooler, For COM-945GSE, Onboard CPU, 12V Fan
- **TF-PER-A055**  
Passive Heatsink, For COM-945GSE, Onboard CPU
- **TF-PER-A056**  
Heat Spreader Kit, For COM-945GSE, Onboard CPU