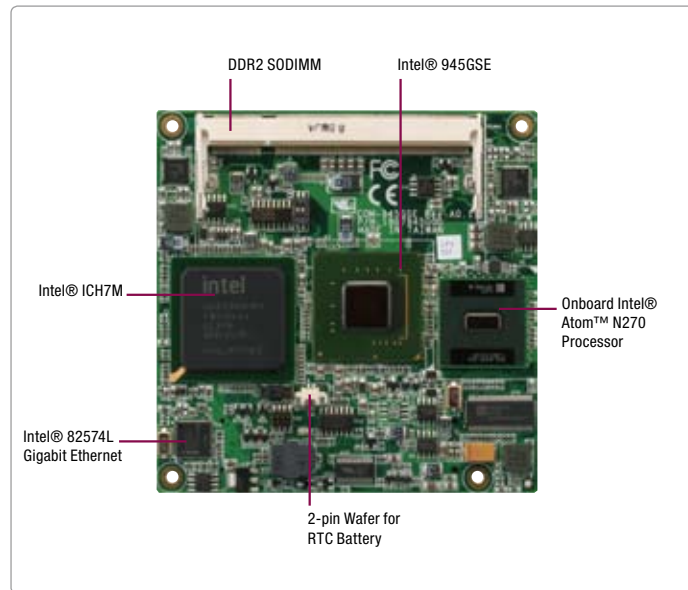


COM-945GSE

COM Express Type 2 CPU Module With Onboard Intel® Atom™ N270 Processor



Features

- Onboard Intel® Atom™ N270 Processor
- Intel® 945GSE + ICH7M
- SODIMM DDR2 400/533 Memory, Max. 2 GB
- Gigabit Ethernet
- CRT, 18-bit Dual-channel LVDS LCD, SDVO
- High Definition Audio Interface
- PATA x 1, SATA 1.5Gb/s 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 2
- Compact Module Size, 95mm x 95mm, COM.0 Rev. 1.0

Specifications

| System | |
|-----------------------------|--|
| Form Factor | COM Express compact module, Pin-out Type 2, COM.0 Rev. 1.0 |
| Processor | Onboard Intel® Atom™ N270 Processor, 1.6 GHz, FSB 533 MHz |
| System Memory | 200-pin DDR2 SODIMM x 1, Max. 2 GB (DDR2 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 SMBus x 1 I2C 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, DDR2 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), -4°F ~ 158°F (-20°C ~ 70°C) for WITAS 1 |
| Storage Temperature | -40°F ~ 176°F (-40°C ~ 80°C) |
| Operating Humidity | 0% ~ 90% relative humidity, non-condensing |
| MTBF (Hours) | 100,000 |
| Display | Supports CRT/LCD simultaneous/ dual view displays |
| Chipset | Intel® 945GSE integrated |
| Memory | Shared system memory up to 224 MB/ DVMT 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 |
| I/O | |
| Storage | PATA x 1 (Two devices) SATA 1.5Gb/s x 2 |
| USB | USB2.0 x 8 |
| Audio | High definition audio |
| GPIO | Up to 4 in or 4 out |



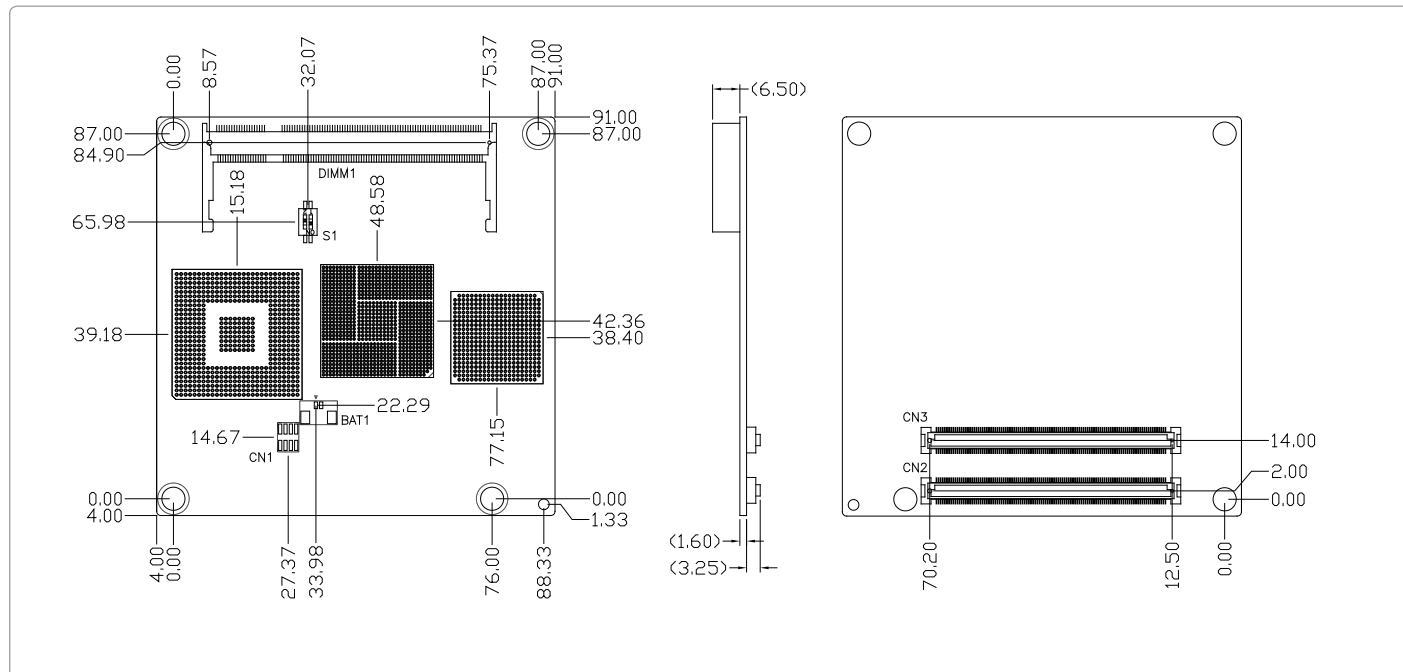
Packing List

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

COM-945GSE

Dimension

Unit: mm



Ordering Information

| Part Number | COM Express Type | CPU | Memory | Display | LVDS | Storage | LAN | USB | URAT | Expansion Slot | Power | Temp |
|----------------------|-------------------|------------------------|----------------------------|-----------------|---------------------|-----------------------|---------|------------|------|--------------------------------|-------|-------------------------|
| TF-COM-945GSE-A11-01 | 2 (COM.0 Rev.1.0) | Intel® Atom™ N270/1.6G | DDR2 SODIMM x 1 Max.2GB | CRT, LVDS, SDVO | 18-bit dual channel | SATA2 x 2 PATA x 1 | GbE x 1 | USB2.0 x 8 | — | PCI-E[1] x 3 32-bit PCI x 4 | 12V | 0°C ~ 60°C |
| TF-COM-945GSEW1-A11 | 2 (COM.0 Rev.1.0) | Intel® Atom™ N270/1.6G | DDR2 SODIMM x 1 Max.2GB | CRT, LVDS, SDVO | 18-bit dual channel | SATA2 x 2 PATA x 1 | GbE x 1 | USB2.0 x 8 | — | PCI-E[1] x 3 32-bit PCI x 4 | 12V | WITAS 1 -20°C ~ 70°C |

Optional Accessories

- TF-ECB-916M-A10-02**
 COM Express Carrier Board, microATX, Dual Gigabit Ethernet, 7.1CH Audio, 4 COM, 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