

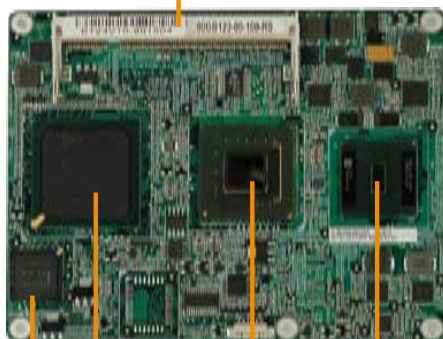
ICE-945GSE

COM Express Basic Type 2 Module, Intel® Atom™ Processor, VGA/LVDS, GbE, SATA, USB and Audio

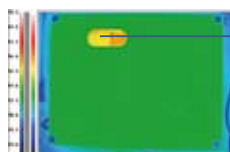


Fanless support with Heatspreader Only

DDR 2 400/533 up to 2 GB

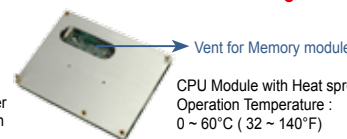


Intel® ICH7M Intel® 945GSE Intel® Atom™ Processor N270
Intel® 82541PI GbE



Memory

Ultra low power Fanless design



Vent for Memory module
CPU Module with Heat spreader
Operation Temperature :
0 ~ 60°C (32 ~ 140°F)

Power Saving / Cost Saving for Thermal design

IEI Model	ICE-9152-R10	ICE-9102-1GZ-R10 ICE-9102-1G512-R10	ICE-945GSE-N270-R10
CPU	Socket 479 Intel® Pentium® M, Celeron® M processor with a 533/400MHz FSB	On board Intel® Celeron® M 1GHz zero cache or 1GHz 512KB cache processor	Intel® Atom™ Processor N270 1.6GHz with a 533MHz FSB
System Chipset	Intel® 915GME + ICH6-M	Intel® 910GMLE + ICH6-M	Intel® 945GSE + ICH7M
BIOS	AMI Flash BIOS	AMI Flash BIOS	AMI Flash BIOS
System Memory	One 200-pin 533/400MHz DDR2 SO-DIMM support up to 2GB	One 200-pin 400MHz DDR2 SO-DIMM support up to 2GB	One 200-pin 533/400MHz DDR2 SO-DIMM support up to 2GB
Ethernet	One Intel® 82541PI GbE Chipset	One Intel® 82541PI GbE Chipset	One Intel® 82541PI GbE Chipset
I/O Interface	8 x USB 2.0 / 2 x SATA 1 x IDE channel	8 x USB 2.0 / 2 x SATA 1 x IDE channel	8 x USB2.0 / 2x SATA IDE channel
Expansion	1 x PCIe x16 signal or 2x SDVO signal 4 x PCIe x1 signal 4 x PCI , 32 bit / 33 MHz PCI bus	2 x SDVO signal 4 x PCIe x1 signal 4 x PCI , 32 bit / 33 MHz PCI bus	1 x SDVO signal 4 x PCIe x1 signal 4 x PCI , 32 bit / 33 MHz PCI bus
Display Interface	VGA Integrated in Intel® 915GME Signal 18/24-bit Dual channel LVDS Signal	VGA Integrated in Intel® 910GMLE Signal 18/24-bit Dual channel LVDS Signal	VGA / HDTV Integrated in Intel® 945GSE Signal 18-bit Dual channel LVDS Signal
Power Supply	AT / ATX supported	AT / ATX supported	AT / ATX supported
Power consumption	12V@2.09A (Pentium® M 1.5GHz)	12V@1.33A (Celeron® M 1GZ/Celeron M 373)	12V@0.95A (ATOM N270)
Thermal Solution	Heat Spreader with Cooler	Heat Spreader with Heat sink	Heat Spreader Only

Specifications

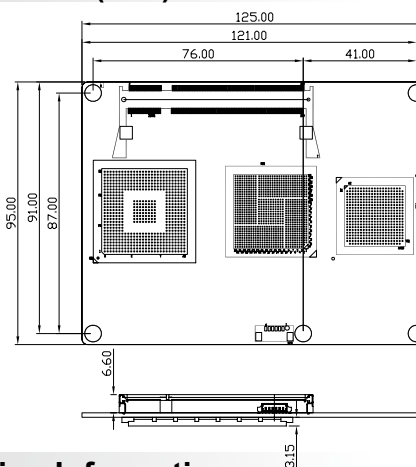
- ◆ CPU
Intel® Atom™ Processor N270 1.6GHz with 533MHz FSB
- ◆ System Chipset
Intel® 945GSE
Intel® 82801GBM / ICH7M
- ◆ BIOS
AMI BIOS
- ◆ System Memory
One 200-pin 533/400MHz DDR2 SO-DIMM supported (system max. 2GB)
- ◆ Ethernet
One Intel® 82541PI GbE chipset
- ◆ I/O Interface
8 x USB 2.0 (to base board)
2 x SATA (to base board)
1 x IDE channel (to base board)
- ◆ Expansions
1 x SDVO signal to base board
4 x PCIe x1 signal to base board
4 x PCI , 32 bit / 33 MHz PCI bus to base board
- ◆ Display Interface
VGA/HDTV integrated in Intel® 945GSE signal (to base board)
18-bit Dual channel LVDS Signal (to base board)
- ◆ Watchdog Timer
Software programmable supports 1 ~255 sec. System reset (Depend on super I/O of base board)
- ◆ Power Supply
AT / ATX supported
- ◆ Power Consumption
12V@0.95A (Intel® Atom™ Processor N270 with 1GB DDR2)
- ◆ Temperature
Operation: 0°C~ 60°C (32°F ~140°F)
- ◆ Humidity
Operation: 5% ~95 non-condensing
- ◆ Dimensions
125 mm x 95 mm
- ◆ Weight
GW: 700g / NW 250g



Features

1. COM Express Type 2 basic module
2. Support 1x SDVO, 4 x PCIe x1, 4 x PCI slots for expansion
3. Support dual display for VGA + LVDS
4. Support 8 x USB2.0, 2 x SATA, 1 x IDE interface
5. Ultra low power design for fanless solution

Dimensions (mm)



Ordering Information

Part No.	Description
ICE-945GSE-N270-R10	COM express basic type 2 Module with Intel® Atom™ Processor N270 1.6G, VGA/LVDS, GbE, USB, SATA and audio
ICE-945GSE-N270W2-R10	COM express basic type 2 Module with Intel® Atom™ Processor N270 1.6G, VGA/LVDS, GbE, USB, SATA and audio, -40~85°C
ICE-945GSE-N270W-R10	COM express basic type 2 Module with Intel® Atom™ Processor N270 1.6G, VGA/LVDS, GbE, USB, SATA and audio, -20~70°C
ICE-DB-9S-R10	Base board for COM express Type 2 module
34000-000231-RS	Heatsink for COM express module

Packing List

- 1 x ICE-945GSE single board computer
- 1 x Heatspreader
- 1 x Utility CD
- 1 x QIG (Quick Installation Guide)

1
Industrial Computing Solutions

2
Embedded Computing Solutions

3
RISC-Based Embedded Solutions

4
Industrial Data Collector/ Server Solutions

5
Video Capture Solutions

6
I/O Communication Solutions

7
Panel Solutions

8
Power Supply/ Network Communication/ Peripherals