

ICE-PV-N4551/D5251

COM Express Compact Type 2 Module, Intel® Atom™ N455/D525 Processor, DDR3, VGA/LVDS, GbE, SATA, USB and audio, RoHS



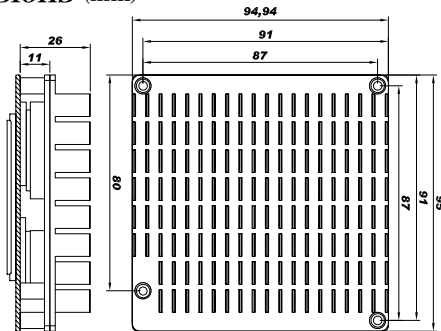
Features

1. COM Express Type 2 module with compact size (95 mm x 95 mm)
2. Intel® Atom™ N455/D525 processor support
3. DDR3 800MHz SO-DIMM socket supports up to 2GB
4. Support eight USB 2.0, three SATA 3Gb/s and one IDE
5. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- ◆ CPU
 - Intel® Atom™ N455 single-core processor 1.66GHz/512KB L2 cache
 - Intel® Atom™ D525 dual-core processor 1.8GHz/1MB L2 cache
- ◆ System Chipset
 - Intel® ICH8M
- ◆ BIOS
 - UEFI BIOS
- ◆ Memory
 - One 204-pin 800MHz DDR3 SDRAM SO-DIMM supported (system max. 4GB for D525)
 - One 204-pin 800MHz DDR3 SDRAM SO-DIMM supported (system max. 2GB for N455)
- ◆ GMA
 - GMA 3150
 - Graphic core speed 400MHz for D525
 - Graphic core speed 200MHz for N455
- ◆ Display Interface
 - Analog CRT (VGA) integrated in Intel® N455/D525 (signal to baseboard)
 - 18-bit single-channel LVDS signal (to baseboard)
- ◆ Ethernet
 - Intel® 82567V Gbe Ethernet PHY
- ◆ I/O Interface
 - 1 x IDE channel (signal to baseboard)
 - 3 x SATA 3Gb/s (to baseboard)
 - 8 x USB 2.0 (to baseboard)
- ◆ Expansions
 - 5 x PCIe x1 signal to baseboard
 - 4 x PCI, 32-bit/33MHz PCI bus to baseboard
- ◆ Watchdog Timer
 - Software programmable supports 1~255 sec. system reset by F75111R
- ◆ Power Supply
 - 12V only, AT/ATX mode support
- ◆ Power Consumption
 - 12V@1.25A (Intel® Atom™ D525 1.8GHz with DDR3 1GB)
- ◆ Operating Temperature
 - 10°C ~ 60°C
- ◆ Operating Humidity
 - 5% ~ 95%, non-condensing
- ◆ Dimensions
 - 95mm x 95mm
- ◆ Weight
 - GW: 600g/NW:200g
- ◆ Display Interface
 - VGA/HDTV integrated in Intel® 945GSE signal (to baseboard)
 - 18-bit dual-channel LVDS Signal (to baseboard)
- ◆ Watchdog Timer
 - Software programmable supports 1~255 sec. system reset (depend on super I/O of baseboard)
- ◆ Power Supply
 - AT/ATX supported
- ◆ Power Consumption
 - 12V@0.95A (Intel® Atom™ processor N270 with 1GB DDR2)
- ◆ Operating Temperature
 - 0°C ~ 60°C (ICE-945GSE-N270-R10)
 - 40°C ~ 85°C (ICE-945GSE-N270W2-R10)
 - 20°C ~ 70°C (ICE-945GSE-N270W-R10)
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 125 mm x 95 mm
- ◆ Weight: GW: 700g/NW 250g

Dimensions (mm)



Packing List

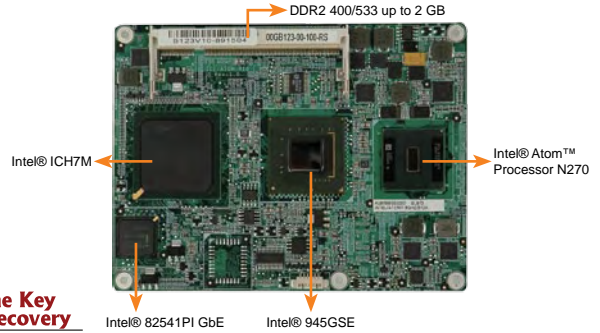
1 x ICE-PV-N4551/D5251 single board computer	1 x Heat spreader
1 x Heat sink	1 x Utility CD
1 x One Key Recovery CD	1 x QIG

Ordering Information

Part No.	Description
ICE-PV-D5251-R10	COM Express Compact Type 2 module, Intel® Atom™ D525 processor, DDR3, VGA/LVDS, GbE, SATA, USB and audio, RoHS
ICE-PV-N4551-R10	COM Express Compact Type 2 module, Intel® Atom™ N455 processor, DDR3, VGA/LVDS, GbE, SATA, USB and audio, RoHS
ICE-DB-9S-R10	Baseboard for COM Express Type II modules

ICE-945GSE-R11

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



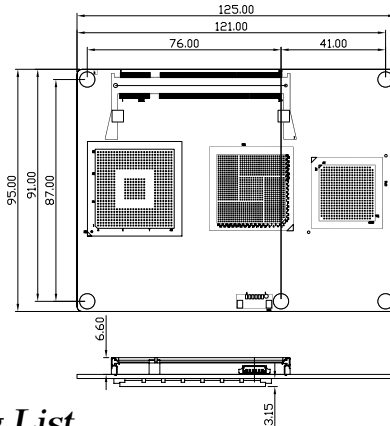
Features

1. Intel® 45nm mobile Atom™ N270 processor supported
2. High-performance MPEG-2 decoding, WMV9 (VC-1) and H.264 (AVC) supported
3. DDR2 800/667MHz dual-channel SD RAM supported (system max. 4 GB)
4. 18/24-bit dual-channel LVDS, analog CRT, HDTV supported
5. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

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 baseboard)
 - 2 x SATA (to baseboard)
 - 1 x IDE channel (to baseboard)
- ◆ Expansions
 - 1 x SDVO signal to baseboard
 - 4 x PCIe x1 signal to baseboard
 - 4 x PCI, 32 bit/33 MHz PCI bus to baseboard
- ◆ Display Interface
 - VGA/HDTV integrated in Intel® 945GSE signal (to baseboard)
 - 18-bit dual-channel LVDS Signal (to baseboard)
- ◆ Watchdog Timer
 - Software programmable supports 1~255 sec. system reset (depend on super I/O of baseboard)
- ◆ Power Supply
 - AT/ATX supported
- ◆ Power Consumption
 - 12V@0.95A (Intel® Atom™ processor N270 with 1GB DDR2)
- ◆ Operating Temperature
 - 0°C ~ 60°C (ICE-945GSE-N270-R10)
 - 40°C ~ 85°C (ICE-945GSE-N270W2-R10)
 - 20°C ~ 70°C (ICE-945GSE-N270W-R10)
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 125 mm x 95 mm
- ◆ Weight: GW: 700g/NW 250g

Dimensions (Unit: mm)



Packing List

1 x ICE-945GSE single board computer	
1 x Heatspreader	1 x Utility CD
1 x One Key Recovery CD	1 x QIG

Ordering Information

Part No.	Description
ICE-945GSE-N270-R11	COM Express basic type 2 module with Intel® Atom™ processor N270 1.6G, VGA/LVDS, GbE, USB, SATA and audio
ICE-945GSE-N270W2-R11	COM Express basic type 2 module with Intel® Atom™ processor N270 1.6G, VGA/LVDS, GbE, USB, SATA and audio, -40°C ~ 85°C
ICE-945GSE-N270W-R11	COM Express basic type 2 module with Intel® Atom™ processor N270 1.6G, VGA/LVDS, GbE, USB, SATA and audio, -20°C ~ 70°C
ICE-DB-9S-R10	Baseboard for COM express Type 2 module
34000-000417-RS	Heatsink for COM express module

1 Industrial Computing Solutions

2 Video Capture Solutions

3 Embedded Computing Solutions

4 Automation Control

5 ORing Network Communication

6 Power Supply/Peripherals

7 Panel Solutions Introduction