

ICE-GM45A

COM Express Basic Type 2 Module, Intel® 45nm Core™ Duo Processor, VGA/LVDS, GbE, SATAII, USB and Audio



1

Industrial Computing Solutions

2

Embedded Computing Solutions

3

RISC-Based Embedded Solutions

4

Industrial Data Collector/ Server Solutions

5

Video Capture Solutions

6

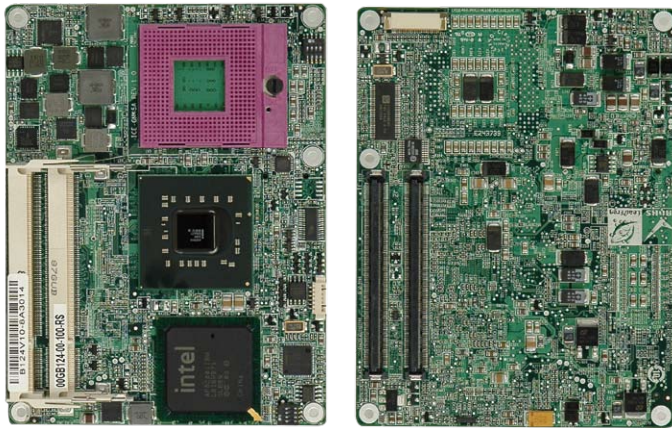
I/O Communication Solutions

7

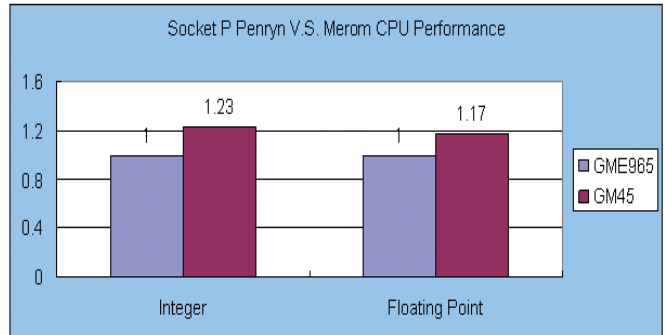
Panel Solutions

8

Power Supply/ Network Communication/ Peripherals



45nm Penryn VS 65nm Merom Performance



- Intel® Core™ 2 Duo T7500 (2.2 GHz, 800 MHz FSB) w/ GME965 Chipset and 667 MHz DDR2
- Intel® Core™ 2 Duo processor (Penryn) (2.53 GHz, 1066MHz FSB) w/ GM45 Chipset and 667 MHz DDR2

Specifications

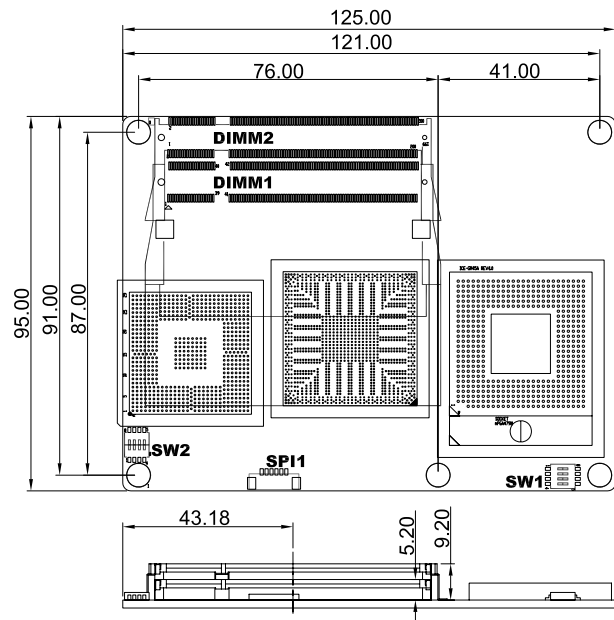
- ◆ CPU
 - Socket P Intel® Core™ Duo Processor with 1066/800 MHz FSB
 - Socket P Intel® Celeron® M Processor with 667 MHz FSB
- ◆ System Chipset
 - Intel® GM45 / ICH9-M
- ◆ BIOS
 - AMI BIOS
- ◆ System Memory
 - Two 200-pin 800/667MHz DDR2 SO-DIMM support up to 4 GB
- ◆ Ethernet
 - One Intel® 82574L PCIe GbE Chipset
- ◆ I/O Interface
 - 8 x USB 2.0 (to Base Board)
 - 4 x SATAII (to Base Board)
- ◆ Audio
 - HD Audio Signal to Base Board (Audio Codec on Base Board)
- ◆ Expansions
 - 1x PCIe x16 or 2 x SDVO signal to Base Board
 - 5 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® GM45 Signal (to Base Board)
 - 18/24-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@2.574A (Intel® Core™2 Duo Processor P8600 2.4 GHz with 1 GB 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. Intel® 45nm mobile Core™ 2 Duo Processor(Penryn) supported
2. High performance MPEG-2 decoding, WMV9 (VC-1) and H.264 (AVC) supported
3. DDR2 800/667MHz dual channel SD RAM supported up to 4 GB
4. 18/24-bit dual channel LVDS, analog CRT, HDTV supported

Dimensions (mm)



Packing List

1 x ICE-GM45A Single board computer
1 x Heatspreader for Peryn CPU (45nm)
1 x Cooler
1 x Utility CD
1 x QIG (Quick Installation Guide)

Ordering Information

Part No.	Description
ICE-GM45A-R10	COM Express Basic Type 2 Module, Intel® 45nm Core™ Duo Processor, VGA/LVDS, GbE, SATAII, USB and Audio
ICE-DB-9S-R10	Base Board for COM Express Type 2 module
34000-000256-RS	Heatspreader for Socket P Merom CPU (65nm)