

IEM-9452

ETX 3.0

ETX CPU Module with Intel® Core™2 Duo L7400 or Celeron® M 423, VGA, LVDS, PCIe GbE, USB 2.0 and SATA



Solder Side



FSB 667

DDR2
667

Gigabit
Ethernet

SERIAL
ATA

USB
2.0

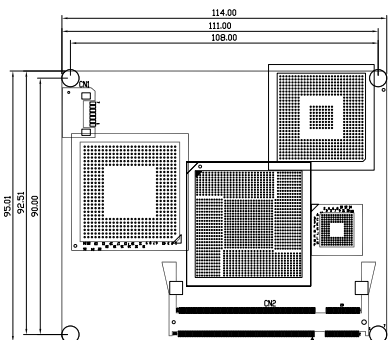
Features

1. Intel® Core™2 Duo CPU with 667MHz FSB
2. Single channel DDR2 400/533/667 MHz up to 2GB
3. Support VGA, 18/24-bit Dual-channels LVDS with dual display support
4. 2 x RS-232, 4 x USB 2.0 and 1 x SATA

Specifications

- ◆ CPU
 - On board Intel® Core™2 Duo L7400 1.5GHz 4MB L2 cache processor with a 667MHz FSB
 - Celeron® M 423 1.06GHz 1M L2 cache processor with a 533MHz FSB (Yonah Core)
- ◆ System Chipsets
 - Intel® 945GME + ICH7-M
- ◆ BIOS
 - AMI Flash BIOS
- ◆ System Memory
 - One 200-pin 667/533/400MHz DDR2 SDRAM SO-DIMM supported (system max. 2GB)
- ◆ Ethernet
 - 10/100Mbps Intel 82562ET Ethernet chipset
- ◆ I/O Interface
 - 2 x RS-232
 - 4 x USB 2.0
 - 1 x IDE
 - 1 x LPT/FDD
 - 1 x KB/MS above I/O via IEM-DB-7S
 - 1 x SATA connector on board
- ◆ Expansion
 - 4 x PCI
 - 1 x ISA
- ◆ Digital I/O
 - 8-bit digital I/O, 4-bit input/ 4-bit output
- ◆ Infrared Interface
 - 1 x Infrared Interface by pin header
- ◆ Super I/O
 - W83627HG
- ◆ Display Interface
 - VGA output Integrated in Intel® 945GME 18/24-bit Dual-channel LVDS
- ◆ Audio
 - Realtek ALC655 with AC'97 codec
- ◆ SSD
 - CF Type II
- ◆ Watchdog Timer
 - Software programmable supports 1 ~255 sec. system reset
- ◆ Power Supply
 - 5V only, AT/ATX Power
- ◆ Power consumption
 - 5V@3.81A, 12V@2.42A (Intel® Core™2 Duo L7400 1.5GHz/ 667MHz CPU with 512MB DDR2 667MHz)
- ◆ Temperature
 - Operating: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity: Operating: 5% ~95%non-condensing
- ◆ Dimension: 95 mm x 114 mm
- ◆ Weight: GW: 850 g / NW: 290 g

Dimensions (mm)



Packing List

1 x IEM-9452 Single Board Computer	1 x Utility CD
1 x thermal pad (P/N: 34000-000183-RS)	1 x QIG (Quick Installation Guide)
1 x Heat sink with Fan (P/N: 19100-000074-RS for IEM-9452-L7400 only)	
1 x Heat sink (P/N: 34000-000180-RS for IEM-9452-CM423 only)	

Ordering Information

Part No.	Description
IEM-9452-L7400-R10	ETX CPU Module with Intel® Core™2 Duo L7400, VGA, LVDS PCIe GbE, USB 2.0 and SATA
IEM-9452-CM423-R10	ETX CPU Module with Intel® Celeron® M 423 , VGA, LVDS, PCIe GbE, USB 2.0 and SATA

IEM-8522

ETX 2.8

ETX CPU Module with Intel® Pentium® M/ Celeron® M CPU , USB 2.0, LAN and Audio



Solder Side



FSB 400

DDR266

USB
2.0

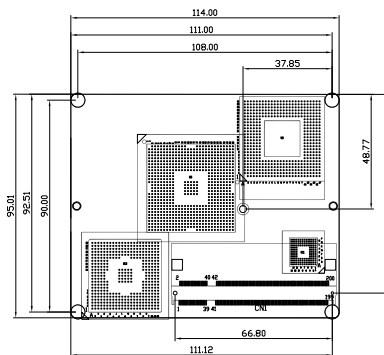
Features

1. ETX form factor for flexible base board design
2. Intel® Pentium® M/ Celeron® M CPU FSB 400MHz on-board
3. Single channel DDR200/266 MHz up to 1GB
4. Support VGA, dual-channel 18-bit LVDS
5. 2 x RS-232, 4 x USB 2.0, LAN, Audio ready for baseboard

Specifications

- ◆ CPU
 - Socket 479 Intel® Pentium® M, Celeron® M processor with a 533/400MHz FSB
 - On board Intel® Celeron® M 600MHz 512KB or 1GHz zero cache processor
- ◆ System Chipsets
 - Intel® 852GM + ICH4
- ◆ BIOS
 - AMI
- ◆ System Memory
 - One 200-pin 266/200MHz DDR SDRAM SO-DIMM supported (system max. 1GB)
- ◆ Ethernet
 - 10/100Mbps Intel® 82562ET Ethernet chipset
- ◆ I/O Interface
 - 2 x RS-232
 - 1 x LPT/FDD
 - 4 x USB 2.0
 - 2 x IDE
 - 1 x KB/MS
- ◆ Expansion
 - 4 x PCI bus master
 - 1 x ISA
- ◆ Infrared Interface
 - 1 x Infrared Interface by pin header
- ◆ Super I/O
 - Winbond W83627HG
- ◆ Display Interface
 - VGA integrated in Intel® 852GM 18-bit dual-channel LVDS
- ◆ Audio
 - Realtek ALC655 with AC'97 codec
- ◆ SSD
 - CF Type II
- ◆ Watchdog Timer
 - Software programmable supports 1 ~255 sec. system reset
- ◆ Power Supply
 - AT/ATX support
- ◆ Power Consumption
 - 5V@3.5A (Celeron® M 1.0GHz, zero cache /256MB DDR 333MHz)
- ◆ Temperature
 - Operating: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity
 - Operating: 5% ~95% non-condensing
- ◆ Dimensions
 - 95 mm x 114 mm
- ◆ Weight
 - GW: 650 g / NW: 90 g

Dimensions (mm)



Packing List

1 x IEM-8522 Single Board Computer	1 x Utility CD
1 x Heat sink with Fan (P/N: 19100-000074-RS for IEM-8522E only)	1 x QIG (Quick Installation Guide)
1 x Heat sink (P/N: 34000-000180-RS for IEM-8522-1GZ/600)	
1 x thermal pad (P/N: 34000-000181-RS for IEM-8522-1GZ/600) (P/N: 34000-000182-RS for IEM-8522E)	

Ordering Information

Part No.	Description
IEM-8522E-R10	Socket 479 Intel® Pentium® M/ Celeron® M ETX CPU Module with LAN Function
IEM-8522-1GZ-R10	ULV Intel® Celeron® M 1GHz Zero Cache ETX CPU Module with LAN Function
IEM-8522-600-R10	ULV Intel® Celeron® M 600MHz 512 KB Cache ETX CPU Module with LAN Function