

IEM-9452

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

ETX 3.0



Solder Side



FSB 667
DDR2 667
Gigabit Ethernet
SERIAL ATA
HI-SPEED CERTIFIED USB

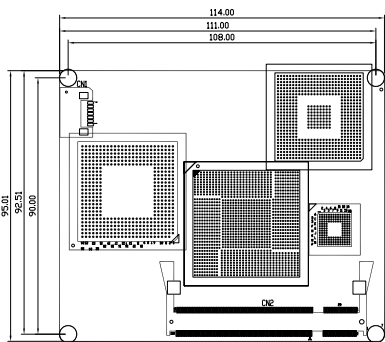
Features

1. Intel® Core™2 Duo CPU with 667 MHz FSB
2. Single channel DDR2 400/533/667 MHz up to 2GB
3. Support VGA, 18/24-bit dual-channel 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 667 MHz FSB
Celeron® M 423 1.06 GHz 1M L2 cache processor with a 533MHz FSB (Yonah Core)
- ◆ System Chipset
Intel® 945GME + ICH7-M
- ◆ BIOS
AMI Flash BIOS
- ◆ System Memory
One 200-pin 667/533/400 MHz 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
- ◆ Expansions
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/667 MHz CPU with 512 MB DDR2 667 MHz)
- ◆ Temperature
Operating: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity: Operating: 5% ~95%non-condensing
- ◆ Dimensions:
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 Heatspreader (P/N: 34000-000183-RS)	1 x QIG (Quick Installation Guide)
1 x Cooler (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 CPU Module with Intel® Pentium® M/ Celeron® M CPU, USB 2.0, LAN and Audio

ETX 2.8



Solder Side



FSB 400
DDR266
HI-SPEED CERTIFIED USB

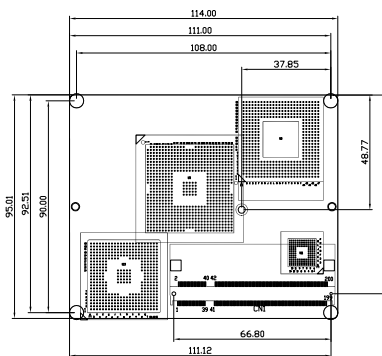
Features

1. ETX form factor for flexible base board design
2. Intel® Pentium® M/ Celeron® M CPU FSB 400 MHz on-board
3. Single channel DDR200/266 MHz up to 1GB
4. Support VGA, 18-bit dual-channel 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 533/400MHz FSB
On board Intel® Celeron® M 600MHz 512KB or 1GHz zero cache processor
- ◆ System Chipset
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
- ◆ Expansions
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 Cooler (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 Heatspreader (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

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