

EmCORE-i9651

Intel® Core™ 2 Duo 3.5" Compact Board



Features

- Support Intel® Socket P Mobile Processors
- Dual Gigabit Ethernet Ports
- Dual Channels 18/24-bit LVDS, and Analog RGB
- Support Dual Independent Displays
- **Extended Operating Temp.: -20 ~ 70°C**

System

CPU

Intel® Core™ 2 Duo processor, supporting FSB up to 800MHz

Intel® Celeron® M processor with 533/667MHz FSB

Memory

1 x 200-pin DDR2 SO-DIMM socket, supporting 533/667MHz SDRAM up to 2GB

Chipset

Intel® GME965 + ICH8M

BIOS

AMI PnP Flash BIOS

Watchdog Timer

1~255 levels reset

I/O

I/O Chip

Winbond W83627HG

Serial Port

2 x COM ports (1 x RS-232, 1 x RS-232/422/485 selectable)

Parallel Port

SPP/EPP/ECP mode selectable

USB Port

6 x USB 2.0 ports

KB/MS

1 x 6-pin Mini-DIN for keyboard and mouse (PS/2 standard via Y-cable)

Digital I/O

8-bit programmable Digital Input/Output

Expansion Bus

1 x Mini PCI socket

Storage

1 x Ultra ATA, supporting 2 IDE devices

2 x Serial ATA ports with 300MB/s HDD transfer rate

1 x CompactFlash Type II socket

1 x Floppy disk drive, shared with parallel port

Ethernet Chipset

2 x Realtek RTL8111 PCIe GbE controllers

Audio Interface

Realtek ALC888 7.1 Channel HD Audio Codec, Mic-in/Line-in/Line-out

Display

Graphics Chipset

Integrated Intel® Graphics Media Accelerator X3100
Analog RGB supports resolution up to 2048 x 1536 @60Hz

Graphics Interface

LCD: Dual Channels 24-bit LVDS
Support Dual Independent Displays

Mechanical & Environmental

Power Connector 2 x 5-pin ATX power connector

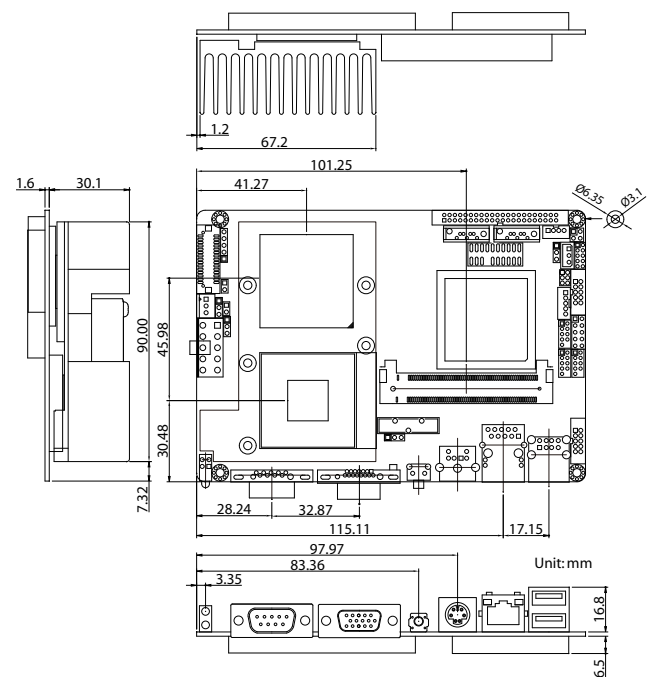
Power Consumption 0.37A@+12V, 6.66A@+5V, 2.37A@+3.3V (Typical)

Operating Temp. -20 ~ 70°C (-4 ~ 158°F)

Operating Humidity 10 ~ 95% @ 70°C (non-condensing)

Dimensions (L x W) 146 x 102 mm (5.7" x 4")

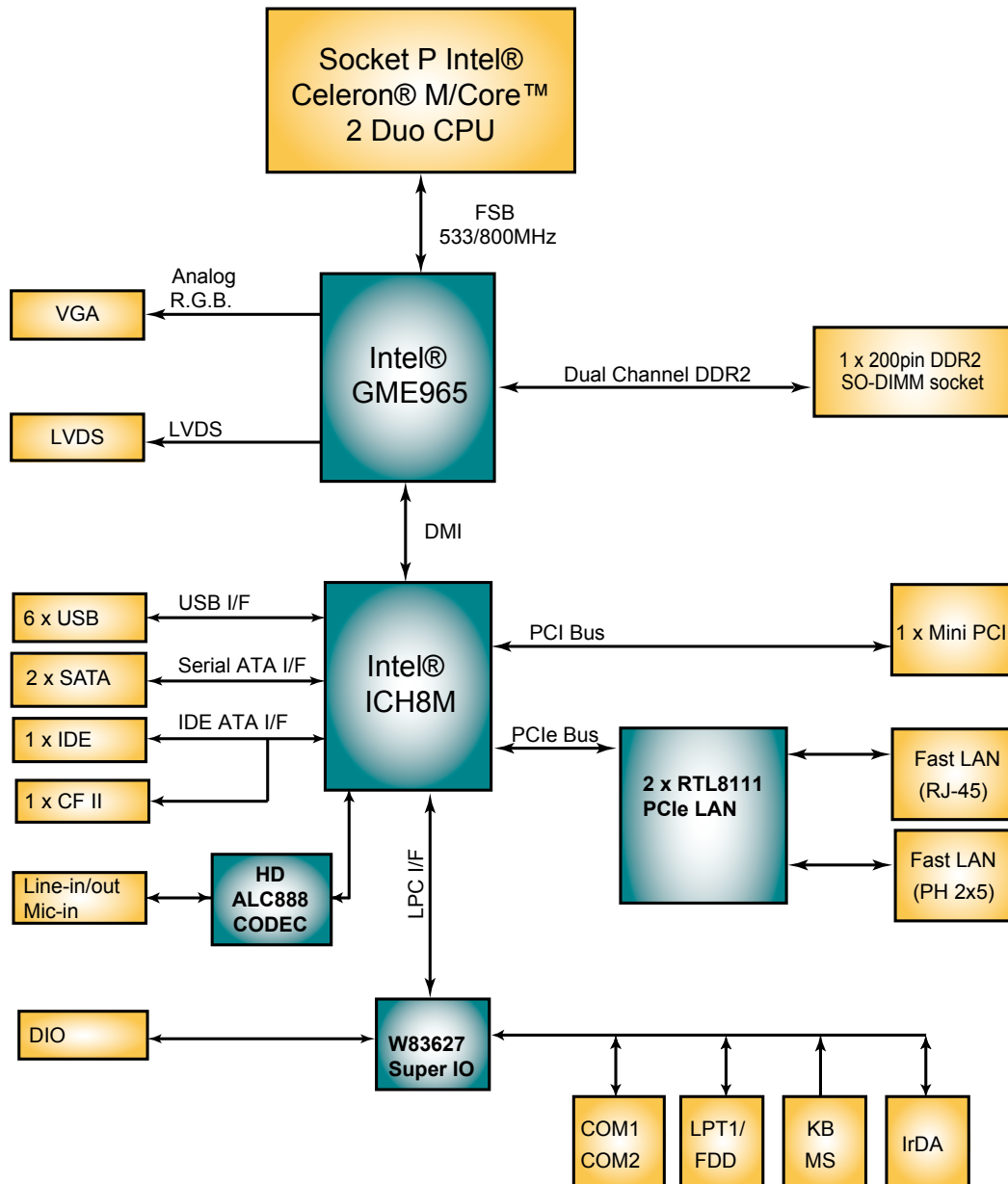
Dimensions



Recommended CPU list:

T7500 2.2GHz Core™ 2 Duo Processor
550 2.0GHz Celeron® M Processor

Block Diagram



Ordering Information

EmCORE-i9651VL2 Socket P Intel® Core™ 2 Duo/ Celeron® M 3.5" Compact Board

Optional Accessories

CBK-09-9651-00

- Cable kit
- 1 x COM port cable
 - 2 x USB cables
 - 1 x IDE cable
 - 1 x Parallel port cable
 - 2 x SATA cables
 - 1 x audio cable
 - 1 x LPT to FDD cable
 - 1 x Ethernet cable
 - 1 x KB & MS Y-cable

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ARBOR Technology:](#)

[EmCORE-i9651VL2](#) [CBK-09-9651-00](#)