

IB950

Intel® Core™2 Duo w/ Intel® GME965 5.25-inch Embedded Board



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[Datasheet in PDF](#)



FEATURES

- Supports Intel® Core™ 2 Duo (Merom 800MHz), Intel® Celeron Mobile CPU
- Supports up to 2.4GHz, 533MHz/800MHz FSB
- Two DDR2 SDRAM DIMM, Max. 4GB memory
- Intel Gigabit LAN / optional Marvell PCI-e Gigabit LAN
- Intel® GME965 Express VGA for CRT / LVDS
- 2x SATA, 6x USB 2.0, 4x COM, Watchdog timer
- 1x MiniPCI, 1x PCI, 1 DVI (connector on cable)

IB950 SPECIFICATIONS

CPU Socket

Socket 478 supports Intel® Core™2 Duo , Celeron® Mobile CPU

CPU Voltage

0.700V ~ 1.5V (IMVP-6)

System Speed

Up to 2.4GHz

CPU Front Side Bus

533MHz/800MHz

Chipset

Intel® GME965 chipset

GMCH: GME965, 1299-pin Micro-FCBGA

ICH8M: 82801HBM 676-pin BGA

BIOS

Award BIOS; Supports ACPI function

Memory type

Two DDR DIMM sockets, supports

DDR2 533/667MHz, max. 4GB, w/o ECC

VGA

Chipset integrated VGA

Supports CRT

SDVO support via Chrontel 7307C, DVI port

LVDS support via GME965 chipset, 24-bit

single/dual channel LVDS

LAN

1. Intel 82566DM Gigabit LAN + Marvell

88E8053/88E8052 PCI-e Gigabit LAN

IDE

Built-in ICH8M, IDE1 (Ultra DMA 33/66/100),

Compact Flash

Supports Type II CF card socket via IDE2 slave channel

Audio

ICH8M built-in audio controller + AC97 Codec

ALC885

LPC I/O

Winbond 83627EHF: COM1, COM2

Secondary I/O

Fintek F81216D: COM3 & COM4 (RS-232)

Keyboard Controller

Built-in Winbond 83627HF

USB

Supports 6 ports, USB 2.0

Serial ATA

Supports 2 ports

Digital I/O

4 in, 4 out

Watchdog Timer

256 levels

Expansion Slots

1 PCI slot (supports 2 Bus Masters)

1 Mini PCI slot

Power Connector

20-pin ATX type

System Voltages

+5V, +3.3V, +12V, -12V, 5VSB

Dimensions

203mm x 146mm (7.99" x 5.74")

Environmental Factors:

Operating Temperature

0°C~60C (32°F~140°F)

Storage Temperature

-20°C~80°C (-68°F~176°F)

Relative Humidity

10%~90% (non-condensing)

(RS232/RS422/RS485), LPT, FDD, HW monitoring (3 thermal inputs, 4 voltage monitor inputs, VID0-5, 2 fan headers)

Ordering Information:

IB950EF - 5.25", SBC, Socket 478 for Core2 Duo, GME965 chipset, **Intel GbE, Marvell PCI-e GbE**, GMCH VGA, LVDS, COMx4, PCI, MiniPCI

Options:

- **IB18A** cable kit ([IB18A](#))
- **Dual RJ-45 connector board (ID950)**

[IB950 Embedded Board Dimensions](#)

* **Remarks: IB950 embedded board uses GLE960 chipset. It supports FSB 533MHz, DDR2 533MHz only.**