

IB880

Socket 479 Pentium® M SBC w/ Intel® 855GME 5.25-inch Embedded Board



Click to enlarge
[Datasheet in PDF](#)



FEATURES

- Supports Pentium® M / Celeron® M processors
- Up to 2.0GHz, 400MHz FSB
- DDR DIMM x 2, max. 2GB
- Integrated VGA, shared memory, CRT/LVDS/DVI
- Integrated 10/100 BaseT and Intel® Gigabit LAN
- Watchdog timer, Digital I/O
- Type 2 CF socket, Mini PCI slot
- PCI slot, 2 x SATA, 4 x USB, 4 x serial

IB880 SPECIFICATIONS

CPU

Intel® Pentium® M processor

CPU Voltage

0.700V~1.708V

System Speed

Up to 2.0GHz

CPU External Clock

400MHz

Green /APM

APM1.2

Chipset

Intel® 82855GME chipset

GMCH: 82855GME, 732-pin Micro-FCBGA

ICH4: 82801DB 421-pin BGA

BIOS

Award BIOS; Supports ACPI function

Cache

1M Level 2 cache

Memory type

Two DDR DIMM sockets, supports

DDR200/266/333MHz, max. 2GB, supports ECC function

VGA

Intel® 82855GME integrated VGA

Supports CRT & LVDS (24-bit)

TMDS/DVI support(for IB800F only)

LAN

ICH4 integrated LAN controller (10/100Mb, for IB880) +

optional Intel® 82541GI Gigabit Ethernet controller

(option for IB880F)

IDE

Built-in ICH4, IDE1, 2 (Ultra DMA 33/66/100)

Secondary I/O

Fintek F81216D: COM3 & COM4 (RS-232)

RTC/CMOS

ICH4-M built-in

Battery

Built-in lithium battery

Keyboard Controller

Built-in Winbond 83627HF

USB

Pin header, supports 4 ports, USB 2.0

Compact Flash

Supports Type II CF card socket via IDE2 slave channel

Serial ATA (option, for IB880F only)

SiL3512; 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, +12V, -12V, 5VSB

Dimensions

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

Audio

ICH4 built-in audio controller + AC97 Codec ALC650
2-watt amplifier

LPC I/O

Winbond 83627HF: IrDax1 Parallel x1, COM1 (RS-232),
COM2 (RS-232/ RS422/RS485), FDC 2.88MB (3 Mode
Support), Hardware monitoring (3 thermal inputs, 4
voltage monitor inputs, VID0-5, 2 fan headers)

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)

Ordering Information:

IB880 - 5.25", Socket 479 for Pentium/Celeron M, 855GME, ICH LAN, GMCH VGA (without IB18 cable kit)

IB880F - 5.25", Socket 479 for Pentium/Celeron M, 855GME, ICH LANx1 + **82541GI GbE LANx1**, GMCH VGA,
DVI, SATA (w/o IB18A cable kit, ID240 RJ45 kit)

IB880-C6K - 5.25", Intel Celeron M 600Hz (w/ 512K L2 Cache), 852GM, ICH LAN, GMCH VGA (heatsink included,
without IB18 cable kit)

IB880F-P11 - 5.25", Intel LV Pentium M 1.1GHz, 855GME, ICH LANx1 + 82541 GbE LANx1, GMCH VGA, DVI,
SATA (heatsink/fan included, w/o IB18A cable kit and ID240)

IB18 - Cable kit w/ FDD, IDEx2, COM, Printer, VGA, Audio, PS2, USB for IB880

IB18A - Cable kit w/ FDD, IDEx2, COM, Printer, VGA, Audio, PS2, USB, DVIK-2 (DVI cable), SATA-1, PW34 for
(IB880F)

ID240 - Bracket w/ RJ45x2 (10/100BT x 1 + Giga x 1)

Remarks: Add (-R) after the model name for RoHS-compliant version when ordering.