



Disk-Size SBCs

5.25" Disk-Size SBCs



FEATURES	IB950	IB880	IB830H
			
Form Factor	5.25" SBC	5.25" SBC	5.25" SBC
CPU Socket	Socket P or CPU on board	Socket 479 or CPU on board	Socket 478
CPU Type	Intel® Core™2 Duo	Intel® Pentium® M Intel® Celeron® M	Intel® Pentium® 4 Intel® Celeron®
CPU Speed	Up to 2.4GHz	900MHz~2.0GHz	1.30GHz~3.06GHz
Front Side Bus	533/667MHz	400MHz	400MHz/533MHz
Chipset	Intel® GME965 ICH8M	Intel® 855GME/852GM ICH4	Intel® 845GV ICH4
Memory Socket	Two DDR2 DIMM	Two 184-pin DDR DIMM	Two 184-pin DDR DIMM
Max. Memory	4GB	2GB	2GB
BIOS	Award	Award	Award
VGA Controller	Intel® GME965 (Intel® GMA X3100)	Intel® 82855GME/852GM integrated	Intel® 845GV integrated
VGA Memory	Intel® Dynamic Video Memory Max. shared memory: 384MB	Shared memory Max. 96MB	Shared memory Max. 64MB
LVDS	18/24-bit dual channel LVDS	18-bit dual channel LVDS	18/24-bit dual channel LVDS
DVI	Chrontel CH7307 DVI on board	Chrontel CH7307 DVI on board	N/A
LAN	ICH8M integrated Gigabit LAN Optional Marvel PCI-E Gigabit LAN Pin header for RJ-45	ICH4 integrated LAN 82541GI Gigabit Pin header for RJ-45	ICH4 integrated LAN Pin header for RJ-45
Audio	Built-in audio + AC97 codec	Built-in audio + AC97 codec	Built-in audio + AC97 codec
IDE	1 UDMA33/66/100	2 UDMA33/66/100	2 UDMA33/66/100
SATA	2 SATA II ports	2 SATA ports	N/A
Super I/O Chipset	W83627HF + F81216D	W83627HF + F81216D	W83627HF + W83627HF
FDD	One slim 3.5" FDD	One slim 3.5" FDD	One slim 3.5" FDD
Parallel	1 SPP/EPP/ECP port	1 SPP/EPP/ECP port	1 SPP/EPP/ECP port
Serial	3x RS232 1x RS232/422/485	3x RS232 1x RS232/422/485	3x RS232 1x RS232/422/485
USB	Pin header for 6 ports (USB 2.0)	Pin header for 4 ports (USB 2.0)	Pin header for 4 ports (USB 2.0)
IrDA	N/A	Yes	Yes
KB / Mouse Connector	Pin header	Pin header	Pin header
Hardware Monitor	Yes	Yes	Yes
SSD	CF socket	CF socket	N/A
Watchdog Timer	256 levels	256 levels	256 levels
Digital I/O	4-in/4-out	4-in/4-out	N/A
Expansion Slots	1 PCI (2 masters) socket 1 Mini PCI socket	1 PCI (2 masters) socket 1 Mini PCI socket	1 PCI (2 masters) socket
P/S Connector	ATX type, 4-pin AT power (output)	ATX / AT type	ATX type
Max. Power Requirement	Intel® Core™2 Duo T7500 2.2GHz w/ 2x 1GB DDR2 +5V: 4.73A +12V: 3.48A +3.3V: 1.25A	Pentium® M 1.8GHz w/ 1GB DDR +5V: 3.13A +12V: 1.70A	Pentium® 4 2.4GHz w/ 512MB DDR +5V: 3.99A +12V: 4.72A
Dimensions	203mm x 146mm	203mm x 146mm	203mm x 146mm
Page No.	p. 2-4	p. 2-5	p. 2-6

1 Motherboards

2 Disk-Size SBCs

3 CPU Modules

4 PC/104 Plus

5 CPU Cards

6 AGP & MicroAGP

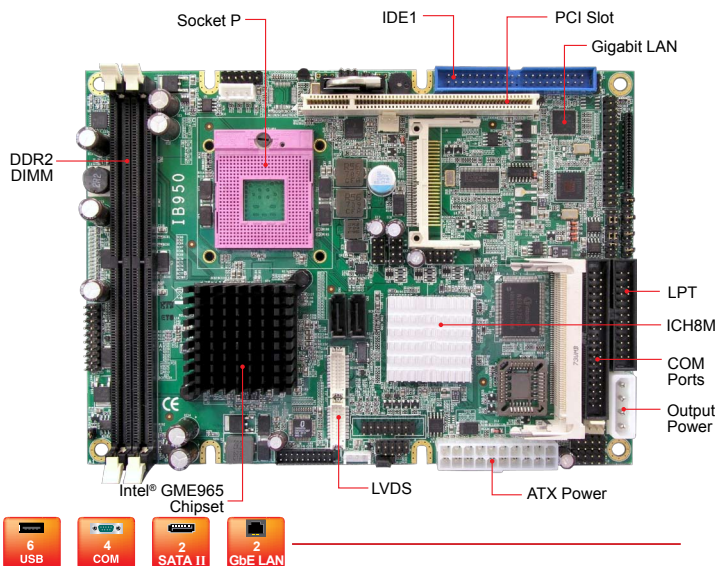
7 Embedded Systems

8 Network Security Appliances

IB799	IB798
	
5.25" SBC	5.25" SBC
CPU on board	CPU on board
VIA Eden™-V4 / C7™	VIA Eden™-V4 / C7™
Up to 2.0GHz	Up to 2.0GHz
400MHz/533MHz FSB	400MHz/533MHz FSB
VIA CN700 VT8237R+	VIA CN700 VT8237R+
Two DDR2 DIMM	One DDR2 SO-DIMM
2GB	1GB
Award	Award
VIA CN700 integrated, supports 16/32/64MB frame buffer size	VIA CN700 integrated
Shared memory Max. 64MB	Shared memory Max. 64MB
18/24-bit dual channel LVDS	N/A
N/A	N/A
VIA VT8237R+ built-in 10/100 and Re- altek RTL8110S-32-LF Gigabit LAN	4 Realtek RTL8100C-LF 10/100BaseT LAN, optional bypass function on LAN1 & 2
Built-in audio + AC97 codec	On board buzzer only
2 UDMA33/66/100/133	1 UDMA33/66/100/133
2 SATA ports supports RAID 0,1	1 SATA port
VIA VT8237R+, Winbond 83697HG, Fintek F81216	VT8237R+, Winbond W83697HG
One slim 3.5" FDD	2 drives
1 SPP/EPP/ECP port	1 SPP/EPP/ECP port
3x RS232 1x RS232/422/485	2x RS232
6 ports on board (USB 2.0)	2 ports on board (USB 2.0)
N/A	N/A
PS/2	PS/2
Yes	Yes
Optional Type II CF socket via IDE2	CF socket
256 levels	N/A
N/A	N/A
1 PCI, 1 PCI-104	1 Mini PCI socket
AT type	DC In +5V
VIA Eden 1GHz w/ 1GB x2 DDR2 +5V: 3.47A +12V: 0.7A	VIA Eden™ 400MHz w/ 512MB DDR2 +5V: 4.23A +12V: 0.8A
203mm x 146mm	203mm x 146mm
p. 2-7	p. 2-8



IB950



Features

- Supports Intel® Core™2 Duo processors
Up to 2.4GHz, 533/667/800MHz FSB
- 2x DDR2 DIMM, Max. 4GB
- Intel® GMA X3100 VGA for CRT/LVDS,
Chrontel 7307C for DVI support
- Integrated Gigabit LAN, optional Marvell
PCI-E Gigabit LAN
- Watchdog timer, Digital I/O
- 2x SATA II, 6x USB, 4x COM, PCI, Mini PCI

System

CPU	Socket P for Intel® Core™2 Duo, up to 2.4GHz
System Memory	2x DDR2 DIMM, Max. 4GB
System Chipset	Intel® GME965 (667/800MHz FSB)
BIOS	Award
Watchdog Timer	256 levels
SSD	Type II CF socket
H/W Monitor	Yes
Expansion Slot	1x PCI (2 masters), 1x Mini PCI

Graphics

VGA Controller	Intel® GME965 built-in GMA X3100 graphics Int. frequency: 500/400MHz
VGA Memory	Intel Dynamic Video Memory Technology (DVMT 4.0) Max. shared memory: 384MB
LCD / DVI	18/24-bit LVDS (single/dual channel) Optional Chrontel 7307C for DVI support

LAN

LAN Controller	Intel® ICH8M Gigabit LAN for LAN1 Marvell 80E8053 PCI-E Gigabit LAN for LAN2
Connector	Pin header for RJ-45

Multi I/O

I/O Chipset	Winbond W83627HG + Fintek F81216D 1x IDE (UDMA33/66/100), 1x KB, 1x Mouse, 1x LPT, 1x slim FDD, 3x RS-232, 1x RS232/422/485, 2x SATA II
USB	Pin header for 6 ports (USB 2.0)
Audio	Built-in audio + AC97 codec
Others	Digital I/O (4-in/4-out)

Mechanical and Environmental

Dimensions	203mm x 146mm (8" x 5.75")
Max. Power Requirement	Intel® Core™2 Duo T7500 2.2GHz w/ 2x 1GB DDR2 +5V: 4.73A +12V: 3.48A +3.3V: 1.25A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

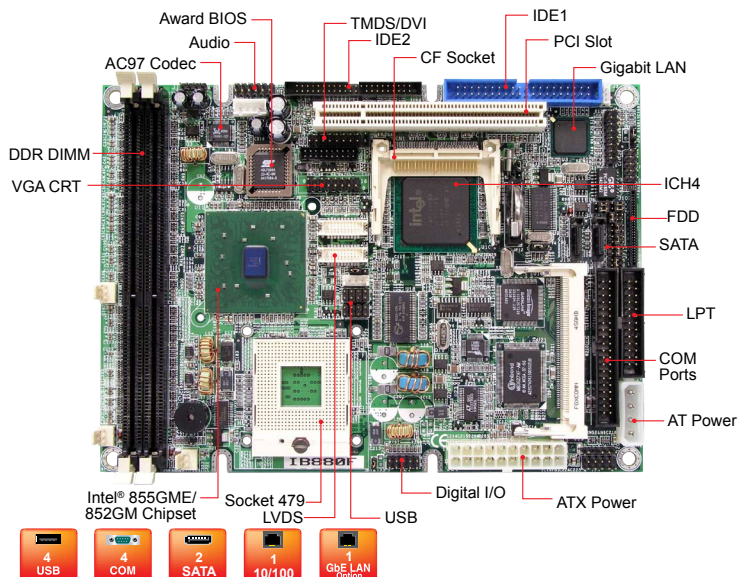
Ordering Information

IB950EF	Socket P GME965 5.25-inch SBC w/ VGA and dual Gigabit LAN
IB18A	Cable kit for IB950EF, w/ FDD, IDEx2, COM, printer, VGA, audio, PS/2, USB, DVIX-2(DVI cable), SATA-1 and PW34
ID240-R	10/100, GbE RJ45 board (see page 34)
ID492	Button/USB/LAN/COM interface board (see page 35)
ID493	Audio/USB/DVI/Dsub interface board (see page 35)
ID950	RJ45 connector board (see page 35)
IP115	Riser card with 1x PCI (see page 34)
IP151-R	Riser card with 2x PCI (see page 34)
IP340	Riser card with 2x PCI (see page 34)
IP450-R	Riser card with 2x PCI (see page 35)
CSB200-950	Chassis for IB950 5.25" SBC (see page 112)

Remarks:

* Specifications are subject to change without prior notice.

IB880



System

CPU	Socket 479 for Pentium® M / Celeron® M, up to 2.0GHz
System Memory	2x DDR DIMM, Max. 2GB
System Chipset	Intel® 855GME/852GM + ICH4, 400MHz FSB
BIOS	Award
Watchdog Timer	256 levels
SSD	Type II CF socket
H/W Monitor	Yes
Expansion Slot	1x PCI (2 masters), 1x Mini PCI

Graphics

VGA Controller	Intel® 855GME/852GM integrated Extreme Graphics 2, supports dual display
VGA Memory	Intel Dynamic Video Memory Technology (DVMT 2.0) Max. shared memory: 96MB
LCD Interface	24-bit LVDS (dual channel)

LAN

LAN Controller	Intel® ICH4 integrated LAN, 10/100Mbps Optional Intel®82541GI Gigabit LAN
Connector	Pin header for RJ-45

Multi I/O

I/O Chipset	Winbond W83627HF + Fintek F81216D 2x IDE (UDMA33/66/100), 1x FDD, 1x KB, 1x Mouse, 3x RS-232, 1x RS232/422/485, 1x LPT, 2x SATA
USB	Pin header for 4 ports (USB 2.0)
Audio	Built-in audio + AC97 codec
Others	IrDA

Features

- Supports Pentium® M / Celeron® M processors
Up to 2.0GHz, 400MHz FSB
- 2x DDR DIMM, Max. 2GB
- Integrated VGA, shared memory, CRT/LVDS/DVI, supports dual display
- Integrated 10/100BaseT and Intel® Gigabit LAN
- Watchdog timer, Digital I/O
- 2x SATA, 4x USB 2.0, 4x COM
- 1x CF socket, 1x PCI, 1x Mini PCI

Mechanical and Environmental

Dimensions	203mm x 146mm (8" x 5.75")
Max. Power Requirement	Pentium® M 1.8GHz, w/ 1GB DDR +5V: 3.13A +12V: 1.70A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

Ordering Information

IB880-R	Socket 479 855GME 5.25-inch SBC w/ VGA and 10/100 LAN
IB880F-R	Socket 479 855GME 5.25-inch SBC w/ VGA and Gigabit LAN
IB880-C6K-R	Intel® Celeron® M 600MHz (512K cache), 852GM 5.25-inch SBC w/ VGA and 10/100 LAN
IB880F-P11-R	Intel® LV Pentium® M 1.1GHz, 855GME 5.25-inch SBC w/ VGA, 10/100 and Gigabit LAN
IB18	Cable kit for IB880-R, w/ FDD, IDEx2, COM, printer, VGA, audio, PS/2 and USB
IB18A	Cable kit for IB880F-R, w/ FDD, IDEx2, COM, printer, VGA, audio, PS/2, USB, DVIK-2(DVI cable), SATA-1 and PW34
IBD-R	RJ-45 cable with bracket for IB880
ID240-R	10/100, GbE RJ45 board (see page 34)
IP115	Riser card with 1x PCI (see page 34)
IP151-R	Riser card with 2x PCI (see page 34)
IP340	Riser card with 2x PCI (see page 34)
IP450-R	Riser card with 2x PCI (see page 35)

Remarks:

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Motherboards

Disk-Size SBCs

CPU Modules

PC/104 Plus

CPU Cards

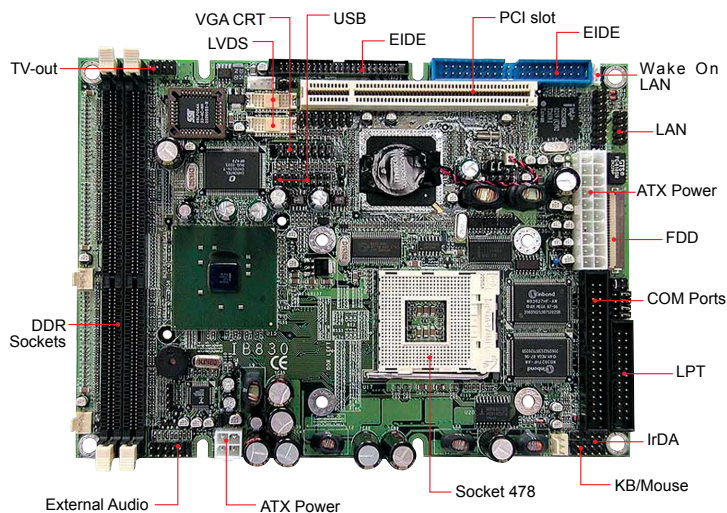
AGP & MicroAGP

Embedded Systems

Network Security Appliance



IB830H



System

CPU	Socket 478 for Pentium® 4 / Celeron®, up to 3.06GHz
System Memory	2x DDR DIMM, Max. 2GB
System Chipset	Intel® 845GV + ICH4, 400/533MHz FSB
BIOS	Award
Watchdog Timer	256 levels
SSD	N/A
H/W Monitor	Yes
Expansion Slot	1x PCI (2 masters)

Graphics

VGA Controller	Intel® 845GV integrated graphics (Intel® Extreme Graphics)
VGA Memory	Intel® Dynamic Video Memory Technology (DVMT) memory allocation
LCD Interface	18/24-bit LVDS (dual channel)

LAN

LAN Controller	Intel® ICH4 integrated LAN, 10/100Mbps
Connector	Pin header for RJ-45

Multi I/O

I/O Chipset	Winbond W83627HF + W83627HF 2x IDE (UDMA33/66/100), 1x FDD, 1x KB, 1x Mouse, 3x RS-232, 1x RS232/422/485, 1x LPT
USB	Pin header for 4 ports (USB 2.0)
Audio	Built-in audio + AC97 codec
Others	IrDA

Features

- Supports Pentium® 4 / Celeron® processors
Up to 3.06GHz, 400/533MHz FSB
- 2x DDR DIMM, Max. 2GB
- Integrated VGA, shared memory, CRT/LVDS
- Onboard 10/100BaseT LAN
- Watchdog timer, 4x USB 2.0
- 4x COM ports, 1x PCI slot

Mechanical and Environmental

Dimensions	203mm x 146mm (8" x 5.75")
Max. Power Requirement	Pentium® 4 2.4GHz, w/ 512MB DDR +5V: 3.99A +12V: 4.72A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

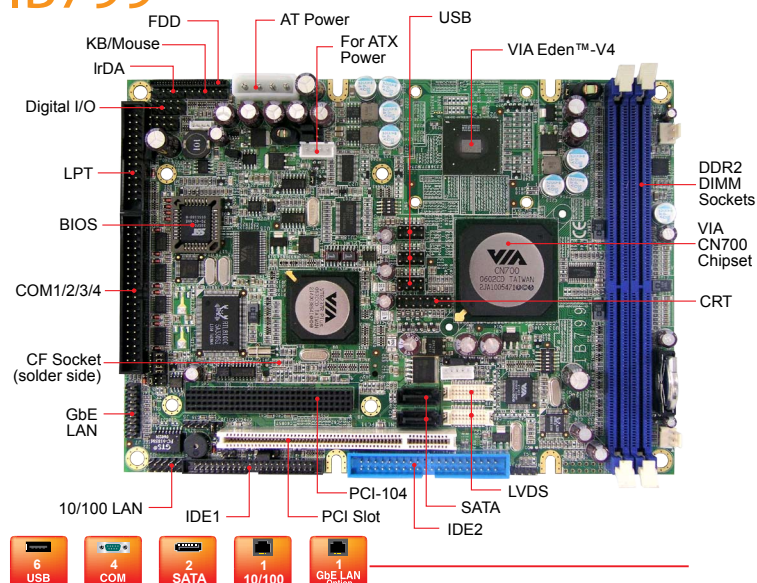
Ordering Information

IB830H-R	Socket 478 845GV 5.25-inch SBC w/ VGA and 10/100 LAN
IB18	Cable kit for IB830H-R, w/ FDD, IDEx2, COM, printer, VGA, audio, PS/2 and USB
IBD-R	RJ-45 cable with bracket for IB830H
ID240-R	10/100, GbE RJ45 board (see page 34)
IP115	Riser card with 1x PCI (see page 34)
IP151-R	Riser card with 2x PCI (see page 34)
IP340	Riser card with 2x PCI (see page 34)
IP450-R	Riser card with 2x PCI (see page 35)

Remarks:

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IB799



Features

- Onboard VIA Eden™-V4 / C7™ processors
Up to 2.0GHz, 400/533MHz FSB
- 2x DDR2 DIMM, Max. 2GB
- Onboard 10/100 and Realtek RTL8110S-32-LF Gigabit LAN
- Integrated VIA CN700 CRT VGA, 18-bit/24-bit dual channel LVDS
- 2x SATA, 6x USB 2.0, 4x COM, Watchdog timer
- 1x PCI, 1x PCI-104, optional Type II CF socket

System

CPU	VIA Eden™-V4 / C7™, up to 2.0GHz
System Memory	2x DDR2 DIMM, Max. 2GB
System Chipset	VIA CN700 + VT8237R+, 400/533MHz FSB
BIOS	Award
Watchdog Timer	256 levels
SSD	Optional Type II CF socket via IDE2
H/W Monitor	Yes
Expansion Slot	1x PCI, 1x PCI-104

Graphics

VGA Controller	VIA CN700 integrated, supports 16/32/64MB frame buffer size
VGA Memory	Shared memory Max. 64MB
LCD Interface	18-bit or 24-bit Dual Channel LVDS

LAN

Controller	VIA VT8237R+ built-in 10/100 and optional Realtek RTL8110S-32-LF Gigabit LAN
Connector	Pin header for RJ-45

Multi I/O

I/O Chipset	VIA VT8237R+, Winbond 83697HG, Fintek F81216 2x IDE (UDMA33/66/100), 1x FDD, 1x KB, 1x Mouse 3x RS-232, 1xRS-232/422/485, 2x SATA (RAID 0,1)
USB	6 ports on board (USB 2.0)
Audio	VIA VT8237R+ built-in audio + AC97 codec
Others	4-pin AT power connector

Mechanical and Environmental

Dimensions	203mm x 146mm (8" x 5.75")
Max. Power Requirement	VIA Eden 1GHz w/ 2x1GB DDR2 +5V: 3.47A +12V: 0.7A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

Ordering Information

IB799-400-R	VIA Eden-V4 400MHz 5.25-inch SBC w/ VGA and 10/100 LAN
IB799F-1G-R	VIA Eden-V4 1.0GHz 5.25-inch SBC w/ VGA, CF, 10/100 and Gigabit LAN
IB35	Cable kit for IB799 series, w/ IDEx2, COM, VGA, PS/2, USB and audio
ID240-R	10/100, GbE RJ45 board (see page 34)
IP115	Riser card with 1x PCI (see page 34)
IP151-R	Riser card with 2x PCI (see page 34)
IP340	Riser card with 2x PCI (see page 34)
IP450-R	Riser card with 2x PCI (see page 35)

Remarks:

* Specifications are subject to change without prior notice.

Motherboards

Disk-Size SBCs

CPU Modules

PC/104 Plus

CPU Cards

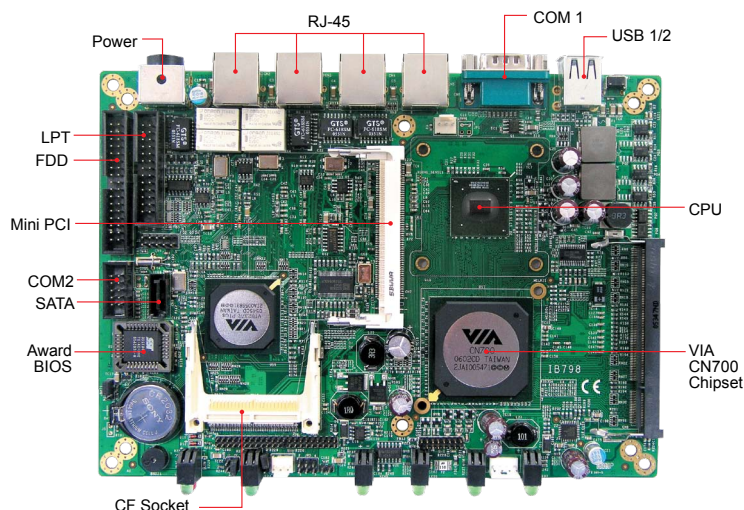
AGP & MicroAGP

Embedded Systems

Network Security Appliance



IB798



System

CPU	VIA Eden™-V4 / C7™, up to 2.0GHz
System Memory	2x DDR2 SO-DIMM, Max. 1GB
System Chipset	VIA CN700 + VT8237R+, 400/533MHz FSB
BIOS	Award
Watchdog Timer	N/A
SSD	CF socket
H/W Monitor	Yes
Expansion Slot	1x Mini PCI

Graphics

VGA Controller	VIA CN700 integrated
VGA Memory	Shared memory Max. 64MB
LCD Interface	N/A

LAN

Controller	4x Realtek RTL8100C-LF 10/100BaseT LAN, optional bypass function on LAN1 & 2
Connector	4x RJ-45 on board

Multi I/O

I/O Chipset	VT8237R+, Winbond W83697HG 1x IDE (UDMA33/66/100/133), 1x FDD, 1x KB, 1x Mouse, 1x LPT, 2x RS-232, 1x SATA
USB	2 ports on board (USB 2.0)
Audio	Onboard buzzer only
Others	1x DC-In power connector

Features

- Onboard VIA Eden™-V4 / C7™ processors
Up to 2.0GHz, 400/533MHz FSB
- 1x DDR2 SO-DIMM, Max. 1GB
- 4x Realtek RTL8100C-LF 10/100BaseT LAN,
optional LAN bypass
- Integrated VIA CN700 VGA
- 1x SATA, 2x USB 2.0, 2x COM ports
- 1x Mini PCI, 1x CF socket

Mechanical and Environmental

Dimensions	203mm x 146mm (8" x 5.75")
Max. Power Requirement	VIA Eden 400MHz w/ 512MB DDR2 +5V: 4.23A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

Ordering Information

IB798-R	VIA Eden-V4 1.0GHz 5.25-inch SBC w/ 10/100 LAN, w/o bypass
IB798F-R	VIA Eden-V4 1.0GHz 5.25-inch SBC w/ 10/100 LAN, w/ bypass
IB798L-R	VIA Eden-V4 400MHz 5.25-inch SBC w/ 10/100 LAN, w/o bypass

Remarks:

- * VGA cable, KB/mouse PS2 cable and 20W power adaptor are optional.
- * Specifications are subject to change without prior notice.

FEATURES	IB887	IB883	IB882
			
Form Factor	3.5" SBC	3.5" SBC	3.5" SBC
CPU Socket	CPU on board	CPU on board	CPU on board
CPU Type	Intel® Atom™ Processor N270	Intel® Atom™ Processor N270	Intel® Atom™ Processor Z500 series
CPU Speed	1.6GHz	1.6GHz	1.1GHz/1.6GHz
Front Side Bus	533MHz	533MHz	400MHz/533MHz
Chipset	Intel® 945GSE ICH7M	Intel® 945GSE ICH7M	Intel® SCH US15W
Memory Socket	One DDR2 SO-DIMM	One DDR2 SO-DIMM	One DDR2 SO-DIMM
Max. Memory	1GB	1GB	1GB
BIOS	Award	Award	Award
VGA Controller	Intel® 945GSE integrated (Intel® GMA 950)	Intel® 945GSE integrated (Intel® GMA 950)	Via ID398 daughter board
VGA Memory	Shared memory Max. 224MB"	Shared memory Max. 224MB"	N/A
LVDS	24-bit dual channel LVDS	18-bit single channel LVDS	24-bit single channel LVDS
DVI	N/A	Chrontel CH7307 DVI on board	N/A
LAN	2 Intel® 82574L PCI-E Gigabit LAN	2 Intel® 82574L PCI-E Gigabit LAN	2 Intel® 82574L PCI-E Gigabit LAN
Audio	Built-in ALC662 HD audio codec	Built-in ALC662 HD audio codec	Built-in ALC888 HD audio codec
IDE	1 UDMA33/66/100	1 UDMA33/66/100	1 UDMA33/66/100
SATA	1 SATA II port	1 SATA II port	1 SATA II port (via pin header)
Super I/O Chipset	W83627EHF	W83627EHF	W83627EHG
FDD	N/A	N/A	N/A
Parallel	N/A	N/A	N/A
Serial	1x RS232 1x RS232/422/485	1x RS232 1x RS232/422/485	3x RS232 1x RS232/422/485
USB	2 ports on board Pin header for 2 ports (USB 2.0)	2 ports on board Pin header for 2 ports (USB 2.0)	2 ports on board Pin header for 6 ports (USB 2.0)
IrDA	N/A	N/A	N/A
KB / Mouse Connector	Combo PS/2	Combo PS/2	Combo PS/2
Hardware Monitor	Yes	Yes	Yes
SSD	CF socket	CF socket	N/A
Watchdog Timer	256 levels	256 levels	256 levels
Digital I/O	4-in/4-out	4-in/4-out	4-in/4-out
Expansion Slots	LPC I/O interface for optional COM3/COM4	LPC I/O interface for optional COM3/COM4	1x PCI-104
P/S Connector	DC In 12V	DC In 12V	DC In 12V~19V
Max. Power Requirement	Intel® Atom™ N270 1.6GHz w/ 512MB DDR2-533 +12V: 1.45A	Intel® Atom™ N270 1.6GHz w/ 512MB DDR2-533 +12V: 1.45A	Intel® Atom™ Z530 1.6GHz w/ 1GB DDR2-533 +12V: 1.55A
Dimensions	147mm x 102mm	147mm x 102mm	147mm x 102mm
Extra Features			
Page No.	p. 2-11	p. 2-11	p. 2-12

Motherboards

Disk-Size SBCs

CPU Modules

PC/104 Plus

CPU Cards

AGP & MicroAGP

Embedded Systems

Network Security Appliance



Disk-Size SBCs

3.5" Disk-Size SBCs



1 Motherboards

2 Disk-Size SBCs

3 CPU Modules

4 PC/104 Plus

5 CPU Cards

6 AGP & MicroAGP

7 Embedded Systems

8 Network Security Appliances

	IB886	IB881	IB885
FEATURES			
Form Factor	3.5" SBC	3.5" SBC	3.5" SBC
CPU Socket	Socket P	Socket 479 or CPU on board	CPU on board
CPU Type	Intel® Core™2 Duo / Celeron® M	Intel® Pentium® M / Celeron® M	AMD Sempron™ 200U/210U
CPU Speed	Up to 2.6GHz	600MHz~2.0GHz	1.0GHz/1.5GHz
Front Side Bus	533MHz/800MHz	400/533MHz	800MHz
Chipset	Intel® GME965 ICH8M	Intel® 855GME / 852GM ICH4	AMD M690E SB600
Memory Socket	One DDR2 SO-DIMM	One DDR SO-DIMM	One DDR2 SO-DIMM
Max. Memory	2GB	1GB	2GB
BIOS	Award	Award	Award
VGA Controller	Intel® GME965 integrated (Intel® GMA X3100)	Chipset integrated	AMD M690E integrated (Radeon X1270)
VGA Memory	Shared memory Max. 384MB	Shared memory Max. 96MB	Shared memory Max. 1GB
LVDS	24-bit dual channel LVDS	18-bit dual channel LVDS	24-bit dual channel LVDS
DVI	N/A	N/A	Integrated DVI
LAN	2 Intel® 82574L PCI-E Gigabit LAN	ICH4 integrated + PHY 82562ET	2 Realtek RTL 8111C PCI-E Gigabit LAN
Audio	Built-in ALC662 HD audio codec	Built-in audio + AC97 codec	Built-in ALC662 HD audio codec
IDE	1 UDMA33/66/100	2 UDMA33/66/100	1 UDMA33/66/100
SATA	1 SATA II port	N/A	1 SATA II port
Super I/O Chipset	W83627EHG	W83627HF	W83627EHG
FDD	N/A	One slim 3.5" FDD	N/A
Parallel	N/A	1 SPP/EPP/ECP port	N/A
Serial	1x RS232 1x RS232/422/485	2x RS232	1x RS232 1x RS232/422/485
USB	2 ports on board Pin header for 2 ports (USB 2.0)	2 ports on board Pin header for 2 ports (USB 2.0)	2 ports on board Pin header for 2 ports (USB 2.0)
IrDA	N/A	Yes	N/A
KB / Mouse Connector	Combo PS/2	PS/2	Combo PS/2
Hardware Monitor	Yes	Yes	Yes
SSD	CF socket	Optional CF socket	CF socket
Watchdog Timer	256 levels	256 levels	256 levels
Digital I/O	4-in/4-out	N/A	4-in/4-out
Expansion Slots	N/A	PCI-104	N/A
P/S Connector	DC In 12V	DC In 12V or 19V	DC In 12V
Max. Power Requirement	Intel® Core™2 Duo T7100 1.8GHz w/ 1GB DDR2-667 +12V: 3.5A	DC 12V:3.5A	AMD Sempron™ 210U 1.5GHz w/ 1GB DDR2-800 +12V: 2.64A
Dimensions	147mm x 102mm	147mm x 102mm	147mm x 102mm
Extra Features			
Page No.	p. 2-13	p. 2-14	p. 2-15

IB530	IB520
	
3.5" SBC	3.5" SBC
CPU on board	CPU on board
AMD Geode LX700/LX800/LX900	AMD Geode LX700/LX800
433/500/600MHz	433/500MHz
N/A	N/A
AMD CS5536	AMD CS5536
One DDR SO-DIMM	One DDR SO-DIMM
1GB	1GB
Award	Award
LX700/LX800/LX900	LX700/LX800
Shared memory Max. 64MB	Shared memory Max. 64MB
18-bit single channel LVDS	18/24-bit single channel LVDS
N/A	N/A
2 Realtek RTL8100C RJ-45 on board	Realtek RTL8100C RJ-45 on board
Built-in audio + AC97 codec	Built-in audio + AC97 codec
1 UDMA33/66/100	1 UDMA33/66/100
N/A	N/A
W83627HF + F81216	W83627HF
One slim 3.5" FDD	One slim 3.5" FDD
1 SPP/EPP/ECP port	1 SPP/EPP/ECP port
4x RS232	2x RS232
Pin header for 4 ports (USB 2.0)	1 port on board Pin header for 3 ports (USB 2.0)
Yes	Yes
PS/2	PS/2
Yes	Yes
CF socket	CF socket
256 levels	256 levels
4-in/4-out	4-in/4-out
PC-104 (ISA)	PCI-104 (PCI)
DC In 12V	DC In 12V
AMD Geode LX800 500MHz w/ 1GB DDR SO-DIMM +12V: 1.05A	AMD Geode LX800 500MHz w/ 512MB DDR +12V: 0.89A
145mm x 102mm	145mm x 102mm
PCI to ISA bridge	Optional PCMCIA
p. 2-16	p. 2-17


IB887 **NEW**


System

CPU	Intel® Atom™ Processor N270, 1.6GHz
System Memory	1x DDR2 SO-DIMM, 400/533MHz, Max. 1GB
System Chipset	Intel® 945GSE + ICH7M, 533MHz FSB
BIOS	Award
Watchdog Timer	256 levels
SSD	Type II CF Socket
H/W Monitor	Yes
Expansion Slot	LPC I/O interface for optional COM3/COM4

Graphics

VGA Controller	Intel® 945GSE integrated GMA950
VGA Memory	Supports DVMT 4.0; Max. shared memory - 224MB
Display Interface	Supports CRT VGA & 24-bit single channel LVDS

Ethernet

Controller	2x Intel® 82574L PCI-E Gigabit LAN
Connector	RJ-45 on board

Multi I/O

Chipset	ICH7M, Winbond W83627EHG 1x IDE, 1x KB, 1x Mouse, 1x RS232, 1x RS-232/422/485, 1x SATA II
USB	2 ports on board Pin header for 2 ports (USB 2.0)
Audio	Built-in Intel® HD Audio + ALC662 Codec for 6 channels
Others	Digital I/O, +12V DC In

Features

- Onboard Intel® Atom™ Processor N270, 1.6GHz, 533MHz FSB
- 1x DDR2 SO-DIMM, Max. 1GB
- Intel® 945GSE VGA for CRT / LVDS
- 2x Intel® PCI-E Gigabit LAN
- Watchdog timer, Digital I/O
- 1x SATA II, 4x USB 2.0, 2x COM, CF Socket

Mechanical and Environmental

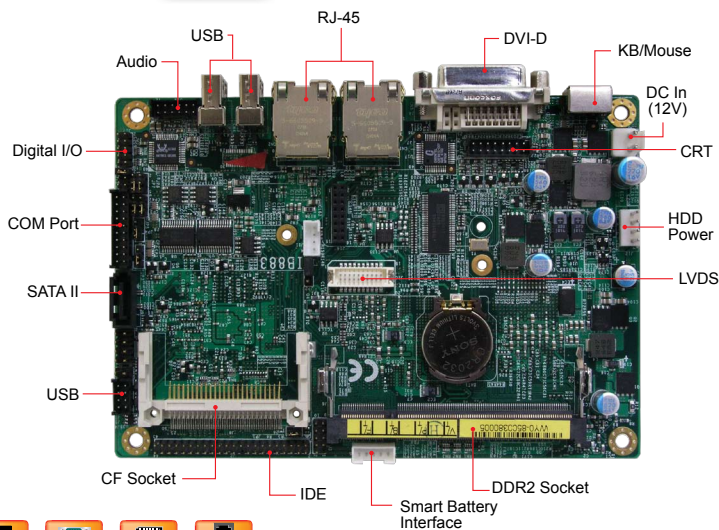
Dimensions	102mm x 147mm (4" x 5.8")
Max. Power Requirement	Intel® Atom™ N270 1.6GHz w/ 512MB DDR2-533 +12V: 1.45A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

Ordering Information

IB883	Intel® Atom™ N270 945GSE 3.5-inch Disk Size SBC w/ VGA and dual PCI-E Gigabit LAN
IB47	Cable kit for IB883 series, w/ IDE, PS/2, audio, USB, COM, power cable and SATA
HSIB883-BGA	Heatsink for IB887 BGA
ID394-R	LPC I/F 4x COM board (see page 35)

Remarks:

* Specifications are subject to change without prior notice.

IB883 **NEW**

System

CPU	Intel® Atom™ Processor N270, 1.6GHz
System Memory	1x DDR2 SO-DIMM, 400/533MHz, Max. 1GB
System Chipset	Intel® 945GSE + ICH7M, 533MHz FSB
BIOS	Award
Watchdog Timer	256 levels
SSD	Type II CF Socket
H/W Monitor	Yes
Expansion Slot	LPC I/O interface for optional COM3/COM4

Graphics

VGA Controller	Intel® 945GSE integrated GMA950
VGA Memory	Supports DVMT 4.0; Max. shared memory - 224MB
Display Interface	Supports CRT VGA & 18-bit single channel LVDS, Chronitel CH7307 on board for DVI port

Ethernet

Controller	2x Intel® 82574L PCI-E Gigabit LAN
Connector	RJ-45 on board

Multi I/O

Chipset	ICH7M, Winbond W83627EHG 1x IDE, 1x KB, 1x Mouse, 1x RS232, 1x RS-232/422/485, 1x SATA II
USB	2 ports on board Pin header for 2 ports (USB 2.0)
Audio	Built-in Intel® HD Audio + ALC662 Codec for 6 channels
Others	Digital I/O, +12V DC In

Features

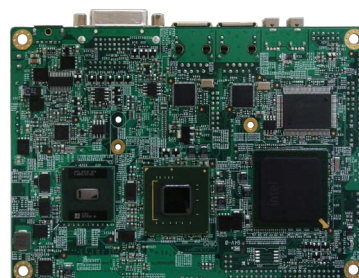
- Onboard Intel® Atom™ Processor N270, 1.6GHz, 533MHz FSB
- 1x DDR2 SO-DIMM, Max. 1GB
- Intel® 945GSE VGA for CRT / LVDS
- Onboard Chronitel CH7307 for DVI
- 2x Intel® PCI-E Gigabit LAN
- Watchdog timer, Digital I/O
- 1x SATA II, 4x USB 2.0, 2x COM, CF Socket

Mechanical and Environmental

Dimensions	102mm x 147mm (4" x 5.8")
Max. Power Requirement	Intel® Atom™ N270 1.6GHz w/ 512MB DDR2-533 +12V: 1.45A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

Ordering Information

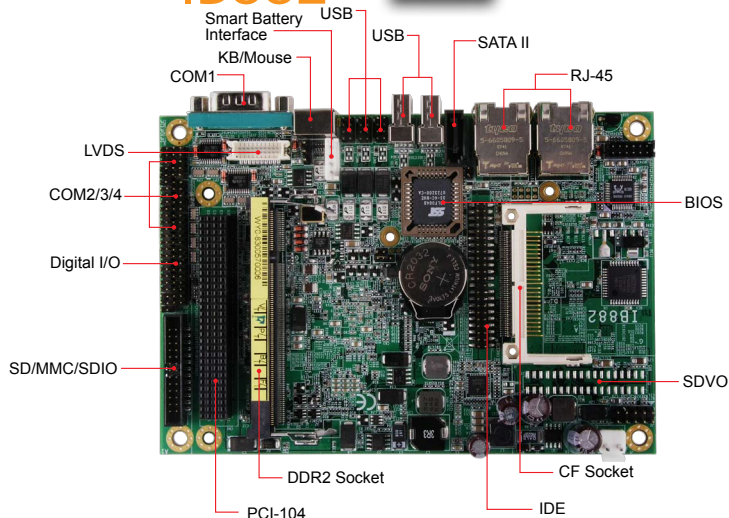
IB883	Intel® Atom™ N270 945GSE 3.5-inch Disk Size SBC w/ VGA and dual PCI-E Gigabit LAN
IB47	Cable kit for IB883 series, w/ IDE, PS/2, audio, USB, VGA, COM, power cable and SATA
HSIB883-BGA	Heatsink for IB883 BGA
ID394-R	LPC I/F 4x COM board (see page 35)
ASB200-883	Aluminum Chassis for IB883 3.5-inch SBC
CSB100-883	Chassis for IB883 3.5-inch SBC



Remarks:
* Specifications are subject to change without prior notice.



IB882 **NEW**



System

CPU	Intel® Atom™ Processor Z510/Z530, 1.1GHz/1.6GHz
System Memory	1x DDR2 SO-DIMM, 400/533MHz, Max. 1GB
System Chipset	Intel® SCH US15W
BIOS	Award
Watchdog Timer	256 levels
SSD	N/A
H/W Monitor	Yes
Expansion Slot	1x PCI-104

Graphics

VGA Controller	Via ID398 daughter board
VGA Memory	N/A
Display Interface	Supports 24-bit single channel LVDS

Ethernet

Controller	2x Intel® 82574L PCI-E Gigabit LAN
Connector	RJ-45 on board

Multi I/O

Chipset	Winbond W83627EHG + Fintek 81216G 1x IDE, 1x KB, 1x Mouse, 3x RS232, 1x RS-232/422/485, 1x SATA II
USB	2 ports on board Pin header for 6 ports (USB 2.0)
SATA II	Pin header for 1 port (3.0Gb/sec)
Audio	Intel® SCH US15W built-in audio w/ Realtek codec for 5.1CH

Features

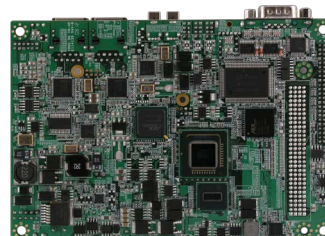
- Onboard Intel® Atom™ Processor Z500 series, 400/533MHz FSB, Hyper-Threading Technology
- 1x DDR2 SO-DIMM, Max. 1GB
- Onboard dual Gigabit LAN
- Supports CRT (via SDVO) and 24-bit LVDS
- 4x COM, 8x USB, 1x SATA II, SD/SDIO/MMC
- PCI-104 socket

Mechanical and Environmental

Dimensions	102mm x 147mm (4" x 5.8")
Max. Power Requirement	Intel® Atom™ Z530 1.6GHz w/ 1GB DDR2-533 +12V: 1.55A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

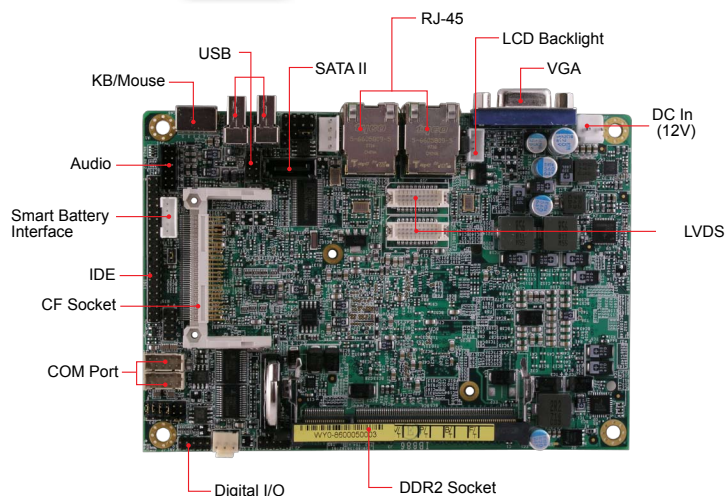
Ordering Information

IB882-11	Intel® Atom™ Z510 1.1GHz SCH US15W 3.5-inch Disk Size SBC w/ dual Gigabit LAN and ID398 VGA
IB882-16	Intel® Atom™ Z530 1.6GHz SCH US15W 3.5-inch Disk Size SBC w/ dual Gigabit LAN and ID398 VGA
IB46	Cable kit for IB882 series, w/ IDE, COM, PS/2, printer, USB, audio, power cable and SATA
HSIB882-BGA	Heatsink for IB882 BGA
ASB200-882	Fanless Chassis for IB882 3.5-inch SBC



Remarks:

* Specifications are subject to change without prior notice.

IB886 **NEW**

System

CPU	Socket P for Intel® Core™2 Duo / Celeron® M processors
System Memory	1x DDR2 SO-DIMM, 533/667MHz, Max. 2GB
System Chipset	Intel® GME965 + ICH8M, 533/800MHz FSB
BIOS	Award
Watchdog Timer	256 levels
SSD	Type II CF Socket
H/W Monitor	Yes
Expansion Slot	N/A

Graphics

VGA Controller	Intel® GME965 integrated GMA X3100
VGA Memory	Supports DVMT 4.0; Max. shared memory - 384MB
Display Interface	CRT and 24-bit single/dual channel LVDS

Ethernet

Controller	2x Intel® 82574L PCI-E Gigabit LAN
Connector	RJ-45 on board

Multi I/O

Chipset	ICH8M, Winbond W83627EHG 1x IDE, 1x KB, 1x Mouse, 1x RS232, 1x RS-232/422/485, 1x SATA II
USB	2 ports on board Pin header for 2 ports (USB 2.0)
Audio	Intel® ICH8M built-in HD audio w/ Realtek ALC662 codec for 5.1CH
Others	Digital I/O, 12V DC-in, Smart battery interface

Features

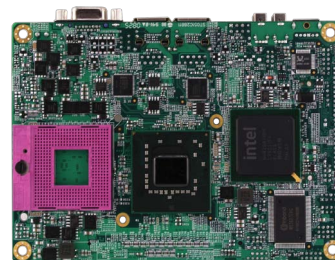
- Supports Intel® Core™2 Duo / Celeron® M processors, 533/800MHz FSB
- 1x DDR2 SO-DIMM, Max. 2GB memory
- Intel® GMA X3100 VGA for CRT/LVDS
- 2x Intel® PCI-E Gigabit LAN
- Watchdog timer, Digital I/O
- 1x SATA II, 4x USB 2.0, 2x COM, CF Socket

Mechanical and Environmental

Dimensions	102mm x 147mm (4" x 5.8")
Max. Power Requirement	Intel® Core™2 Duo T7100 1.8GHz w/ 1GB DDR2-667 +12V: 3.5A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

Ordering Information

IB886	Socket P Intel® GME965 Core™2 Duo 3.5-inch Disk Size SBC w/ VGA and dual PCI-E Gigabit LAN
IB49	Cable kit for IB886 series, w/ IDE, PS/2, audio, USB, COM, power cable and SATA
HSIB886-BGA	Heatsink for IB886 BGA
CSB110-886	Chassis for IB886 3.5-inch SBC



Remarks:

* Specifications are subject to change without prior notice.

Motherboards

Disk-Size SBCs

CPU Modules

PC/I/O Plus

CPU Cards

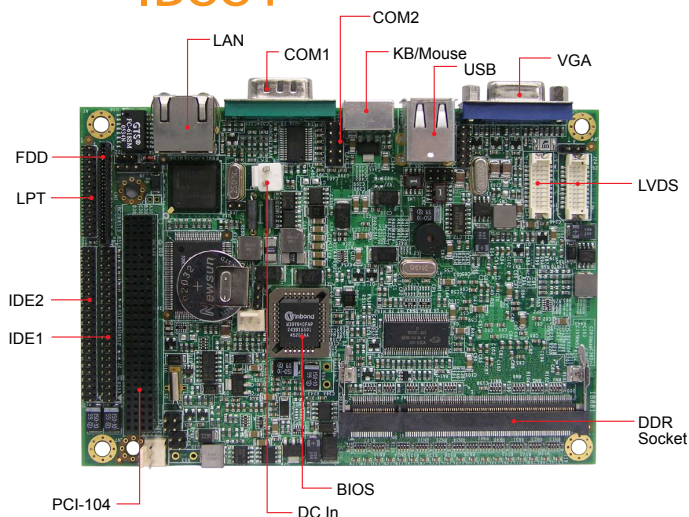
AGP & MicroAGP

Embedded Systems

Network Security Appliance



IB881



System

CPU	Socket 479 for Pentium® M / Celeron® M or CPU on board 600MHz ~ 1.6GHz
System Memory	1x SO-DIMM, Max. 1GB, DDR200/266/333
System Chipset	Intel® 855GME/852GM + ICH4, 400MHz FSB
BIOS	Award
Watchdog Timer	256 levels
SSD	N/A
H/W Monitor	Yes
Expansion Slot	1x PCI-104

Graphics

VGA Controller	Intel® 855GME/852GM integrated Extreme Graphics 2, supports dual display
VGA Memory	Intel Dynamic Video Memory Technology (DVMT 2.0) Max. shared memory: 96MB
LCD Interface	18-bit LVDS (dual channel)

LAN

LAN Controller	Intel® ICH4 integrated, 10/100Mbps + PHY 82562ET
Connector	RJ-45 on board

Multi I/O

I/O Chipset	Winbond W83627HF 2x IDE (UDMA33/66/100), 1x slim FDD, 1x KB, 1x Mouse, 2x RS-232, 1x LPT
USB	4 ports (2 on board, 2 via pin header), USB 2.0
Audio	Built-in audio + AC97 codec

Features

- Supports Pentium® M / Celeron® M processors
Up to 1.6GHz, 400MHz FSB
- 1x DDR SO-DIMM, max. 1GB
- Integrated VGA, shared memory, CRT/LVDS, supports dual display
- Integrated 10/100BaseT LAN
- Watchdog timer, Hardware Monitor
- 1x PCI-104, 4x USB 2.0, 2x COM

Mechanical and Environmental

Dimensions	102mm x 147mm (4" x 5.8")
Max. Power Requirement	DC 12V:3.5A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

Ordering Information

IB881-R	Socket 479 855GME 3.5-inch SBC w/ VGA and 10/100 LAN
IB881-C6K-R	Intel® Celeron® M 600MHz (512K cache) 852GM 3.5-inch SBC w/ VGA and 10/100 LAN
IB881-C8-R	Intel® Celeron® M 800MHz (512K cache) 852GM 3.5-inch SBC w/ VGA and 10/100 LAN
IB32	Cable kit for IB881 series, w/ IDE, COM, printer, audio, USB and PS/2 Y cable
IB33	ATX power switch/power cable for IB881 series
CSB100-881	Chassis for IB881 3.5" SBC (see page 110)
ASB200-881	Aluminum Chassis for IB881 3.5" SBC (see page 115)

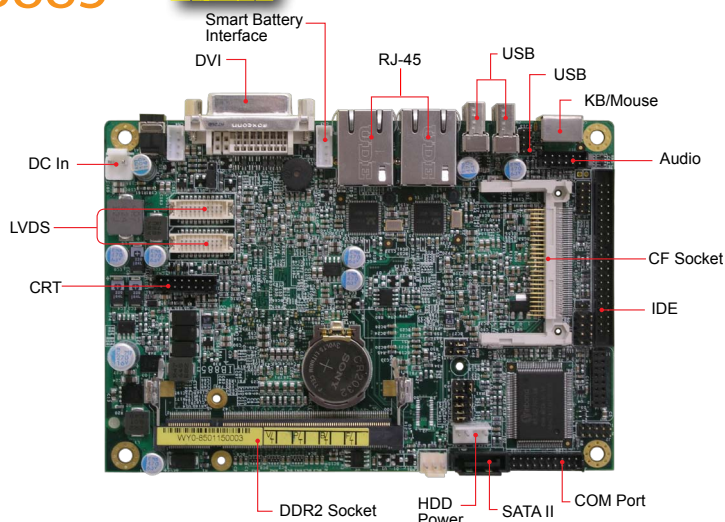


Remarks:

* Specifications are subject to change without prior notice.

IB885

NEW



System

CPU	AMD Sempron™ 200U (8W, 1.0GHz, DDR2-400) / 210U (15W, 1.5GHz, DDR2-667), 256K cache
System Memory	1x DDR2 SO-DIMM, 400MHz, Max. 2GB
System Chipset	AMD M690E + SB600, 800MHz FSB
BIOS	Award
Watchdog Timer	256 levels
SSD	CF socket
H/W Monitor	Yes
Expansion Slot	N/A

Graphics

VGA Controller	AMD M690E integrated Radeon X1270 graphics
VGA Memory	Shared memory, Max. 1GB
Display Interface	Available in combination of Analog/CRT, LVDS Onboard DVI, CRT via pin header

Ethernet

Controller	2x Realtek RTL 8111C PCI-E Gigabit LAN
Connector	RJ-45 on board

Multi I/O

Chipset	AMD SB600, Winbond W83627EHG 1x IDE, 1x KB, 1x Mouse, 1x RS232, 1x RS-232/422/485, 1x SATA II
USB	2 ports on board Pin header for 2 ports (USB 2.0)
Audio	AMD SB600 built-in HD audio w/ Realtek ALC662 codec for 5.1CH
Others	Digital I/O (4-in/4-out), +12V DC In

Features

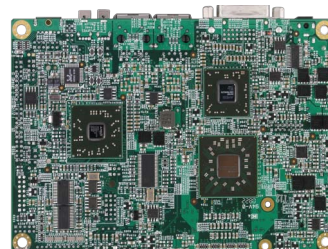
- Supports AMD Sempron™ 200U/210U processors, 1GHz/1.5GHz, 800MHz FSB
- 1x DDR2 SO-DIMM, supports 2GB memory
- AMD M690E VGA for CRT / LVDS / DVI
- 2x Realtek PCI-E Gigabit LAN
- 1x SATA II, 4x USB 2.0, 2x COM, Watchdog timer
- Digital I/O, LPC, Smart battery interface

Mechanical and Environmental

Dimensions	102mm x 148mm
Max. Power Requirement	AMD Sempron™ 210U 1.5GHz w/ 1GB DDR2-800 +12V: 2.64A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

Ordering Information

IB885	AMD Sempron™ 200U 1.0GHz 3.5-inch Disk Size SBC w/ VGA and dual PCI-E Gigabit LAN
IB885-15	AMD Sempron™ 210U 1.5GHz 3.5-inch Disk Size SBC w/ VGA and dual PCI-E Gigabit LAN
IB48	Cable kit for IB885 series, w/ IDE, PS/2, audio, USB, VGA, COM, power cable and SATA
HSIB885-BGA	Heatsink for IB885 BGA
ID394-R	LPC interface adapter card for 4 COM
ASB200-885	Aluminum Chassis for IB885 3.5-inch SBC



Remarks:

* Specifications are subject to change without prior notice.

Motherboards

Disk-Size SBCs

CPU Modules

PC/104 Plus

CPU Cards

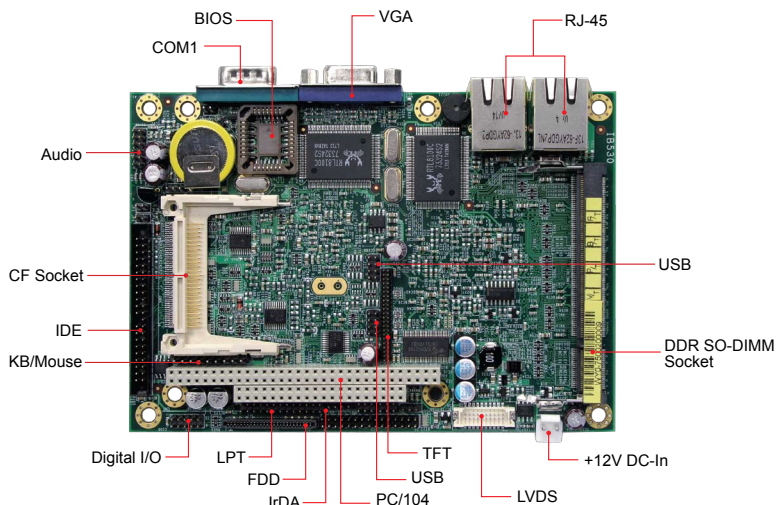
AGP & MicroAGP

Embedded Systems

Network Security Appliance



IB530



System

CPU	AMD Geode LX (LX900 @ 600MHz, LX800 @500MHz, LX700 @433MHz)
System Memory	1x DDR SO-DIMM, Max. 1GB
System Chipset	AMD CS5536 chipset, 400/533MHz FSB
BIOS	Award
Watchdog Timer	256 levels
SSD	CompactFlash
H/W Monitor	Yes
Expansion Slot	1x PC/104 (ISA only), with 4x mounting holes

Graphics

VGA Controller	LX900/LX800/LX700 built-in 2D graphics controller Supports CRT and TFT LCD display
VGA Memory	Shared memory Max. 64MB
LCD Interface	44-pin header for TFT display

LAN

LAN Controller	2x Realtek RTL8100C-LF, 10/100Mbps
Connector	RJ-45 on board

Multi I/O

I/O Chipset	AMD CS5536 + Winbond W83627HF + Fintek F81216 1x IDE (UDMA33/66/100), 1x FDD, 1x KB/Mouse, 4x RS232, 1x LPT
USB	4 ports (USB 2.0) via pin header
Audio	Built-in audio + AC97 codec
Others	ITE IT8888G PCI to ISA bridge (w/o ISA master & PnP) Slim FDD connector on board, +12DV-in power, Digital I/O (4-in/4-out)

Features

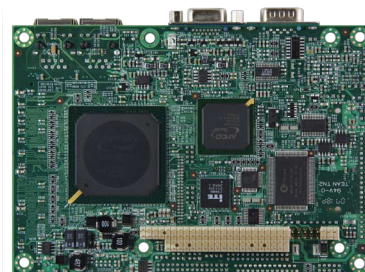
- Embedded AMD Geode LX processor, 600MHz (LX900), 500MHz (LX800), 433MHz (LX700)
- 1x DDR SO-DIMM, Max. 1GB
- 2x Realtek RTL8100C 10/100BaseT LAN
- Integrated LX900/LX800/LX700 2D VGA controller, supports CRT and LVDS
- 4x USB 2.0, 4x COM, slim FDD, PCI to ISA bridge, hardware monitoring
- Watchdog timer, Digital I/O

Mechanical and Environmental

Dimensions	102mm x 145mm (4" x 5.7")
Max. Power Requirement	AMD Geode LX800 500MHz w/ 1GB DDR SO-DIMM +12V: 1.05A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

Ordering Information

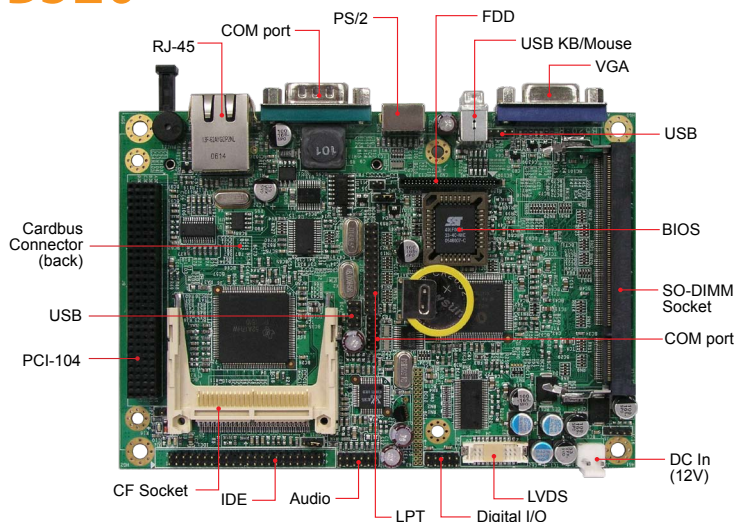
IB530F	AMD Geode LX800, 500MHz, 3.5-inch SBC w/ audio, VGA and dual 10/100 LAN, 18-bit LVDS
IB530F-24	AMD Geode LX800, 500MHz, 3.5-inch SBC w/ audio, VGA and dual 10/100 LAN, 24-bit LVDS
IB40	Cable kit for IB530 series, w/ IDE, COM, PS/2, printer, USB, audio and power cable
CSB100-530	Chassis for IB530 3.5" SBC (see page 109)



Remarks:

* The AMD Geode LX800 @0.9W processor operates at a maximum power of 3.6W (TDP), while the AMD Geode LX700 @0.8W consumes a maximum power of 3.1W.

IB520



Features

- Embedded AMD Geode LX processor, 433MHz (LX700)/500MHz (LX800)
- 1x DDR SO-DIMM, Max. 1 GB
- Realtek RTL8100C 10/100BaseT LAN
- Integrated LX800/LX700 2D VGA controller, supports CRT and TFT LCD display
- 4x USB 2.0, 2x COM, CF socket, Watchdog timer, Digital I/O
- 1x PCI-104, optional PCMCIA connector

System

CPU	AMD Geode LX (LX800 @500MHz, LX700 @433MHz)
System Memory	1x DDR SO-DIMM, Max. 1GB
System Chipset	AMD CS5536 chipset
BIOS	Award
Watchdog Timer	256 levels
SSD	CF socket, Type II
H/W Monitor	Yes
Expansion Slot	1x PCI-104, optional PCMCIA connector

Graphics

VGA Controller	LX800/LX700 built-in 2D graphics controller Supports CRT and TFT LCD display
VGA Memory	Shared memory Max. 64MB
LCD Interface	DF13-20 pin header for LVDS support 44-pin pin header for TFT LCD panel

LAN

Controller	Realtek RTL8100C, 10/100Mbps
Connector	RJ-45 on board

Multi I/O

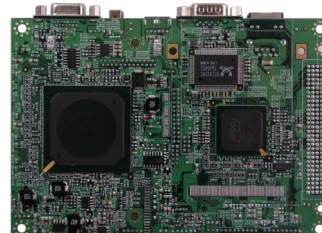
I/O Chipset	AMD CS5536 + Winbond 83627HG 1x IDE (UDMA33/66/100), 2x RS-232, 1x FDD, 1x LPT, 1x KB, 1x Mouse
USB	1 port on board; Pin header for 3 ports (USB 2.0)
Audio	Built-in audio + AC97 codec
Others	IrDA, Digital I/O (4-in/4-out), +12V DC-in, PCI Arbiter

Mechanical and Environmental

Dimensions	145mm x 102mm (5.7" x 4")
Max. Power Requirement	AMD Geode LX800 500MHz w/ 512MB DDR +12V: 0.89A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

Ordering Information

IB520-R	AMD Geode LX700, 433MHz, 3.5-inch SBC w/ audio, VGA, 10/100 LAN and 24-bit LVDS
IB520F-R	AMD Geode LX800, 500MHz, 3.5-inch SBC w/ audio, VGA, 10/100 LAN, PCMCIA and 24-bit LVDS
IB520-18-R	AMD Geode LX700, 433MHz, 3.5-inch SBC w/ audio, VGA, 10/100 LAN and 18-bit LVDS
IB520F-18-R	AMD Geode LX800, 500MHz, 3.5-inch SBC w/ audio, VGA, 10/100 LAN, PCMCIA and 18-bit LVDS
IB37A	Cable kit for IB520 series, w/ IDE, COM, PS/2, printer, USB, audio and power cable
CSB100-520	Chassis for IB520 3.5" SBC (see page 108)



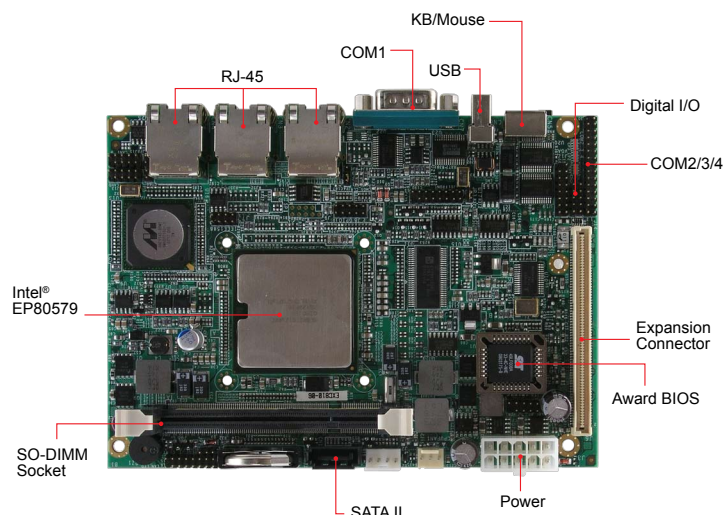
Remarks:

* Specifications are subject to change without prior notice.



FEATURES	ECX810	ECX800
		
Form Factor	ECX SBC	ECX
CPU Socket	CPU on board	BGA CPU on board / Socket M
CPU Type	Intel® EP80579 Integrated	Intel® Core™2 Duo / Core™ Duo
CPU Speed	600MHz/1.06GHz/1.2GHz	Up to 2.16GHz
Front Side Bus	400MHz/533MHz	533MHz/667MHz FSB
Chipset	Intel® EP80579 Integrated	Intel® 945GME ICH7M
Memory Socket	One DDR2 SO-DIMM	One DDR2 SO-DIMM
Max. Memory	2GB	2GB
BIOS	Award	Award
VGA Controller	Optional XGI Z11 2D Accelerator, 1600x1200	Intel® 945GME integrated
VGA Memory	DDR2, 32M SDRAM	Shared memory Max. 224MB
LVDS	Optional via LVDS daughter board	18-bit dual channel LVDS
DVI	N/A	N/A
LAN	Integrated three Gigabit LAN transceiver with RGMII interface	Marvell 88E8053 PCI-E Gigabit LAN
Audio	T1 USB audio codec TI PCM2902 (Line-out)	Built-in audio + AC97 codec, SPDIF-OUT
IDE	N/A	1 UDMA33/66/100
SATA	1 SATA II port	1 SATA port
Super I/O Chipset	W83627EHG	W83627EHF
FDD	N/A	One slim 3.5" FDD
Parallel	N/A	1 SPP/EPP/ECP port
Serial	4x RS232	2x RS232
USB	1 port on board (USB 2.0)	4 ports on board (USB 2.0)
IrDA	N/A	Yes
KB / Mouse Connector	Combo PS/2	PS/2
Hardware Monitor	Yes	Yes
SSD	CF socket	Type II CF socket
Watchdog Timer	256 levels	256 levels
Digital I/O	4-in/4-out	4-in/4-out
Expansion Slots	XGI VGA daughter board connection	1 PCI, 1 PCI-E(x1), 1 LPC, 1 SDVO (Region C, Type III)
P/S Connector	ATX type	ATX type
Max. Power Requirement	Intel® EP80579 1.2GHz w/ 2GB DDR2-800 +12V: 0.37A +5V: 3.78A +3.3V: 2.69A	Intel® Core™ Duo 1.66GHz w/ 1GB DDR2 +3.3V: 1.54A +5V: 1.86A +12V: 1.15A
Dimensions	146mm x 105mm	146mm x 105mm
Extra Features	Optional IEEE1588, CAN Bus (two CAN 2.0b interface)	TV-out
Page No.	p. 2-19	p. 2-20

ECX810



System

CPU	Intel® EP80579 Integrated Processor, 600MHz/1.06GHz/1.2GHz
System Memory	1x DDR2 SO-DIMM, 400/533/667/800MHz, Max. 2GB
System Chipset	Intel® EP80579 Integrated
BIOS	Award
Watchdog Timer	256 levels
SSD	Type II CF Socket
H/W Monitor	Yes
Expansion Slot	XGI VGA daughter board connection

Graphics

VGA Controller	XGI Z11 2D Accelerator, 1600x1200, supports CRT via ID810 daughter board
VGA Memory	DDR2, 32M SDRAM
Display Interface	Optional 18-bit single channel LVDS

Ethernet

Controller	Integrated three Gigabit LAN transceiver with RGMII interface
Connector	3x RJ-45 on board

Multi I/O

Chipset	Intel® EP80579, Winbond W83627EHG, 1x CF, 1x KB/Mouse (Y-cable), 4x RS232, 1x SATA II, 1x USB
USB	1 port on board (another port reserved for audio)
Audio	TI USB audio codec TI PCM2902 (Line-out)
Others	Digital I/O (4-in/4-out), optional IEEE1588, CAN Bus (two CAN 2.0b interface)

Features

- Supports Intel® EP80579 Integrated Processor, 600MHz/1.06GHz/1.2GHz speed, 400/533MHz FSB
- 1x DDR2 SO-DIMM, Max. 2GB
- Support LVDS optional XGI Z11 2D VGA, CRT
- 3x Intel® integrated Gigabit LAN
- Watchdog timer, Digital I/O,
- 1x SATAII, 1x USB 2.0, 4x COM, 1x CF Socket
- Optional 1x IEEE1588, 2x CAN Bus interface

Mechanical and Environmental

Dimensions	105mm x 146mm (4.13" x 5.75")
Max. Power Requirement	Intel® EP80579 1.2GHz w/ 2GB DDR2-800 +12V: 0.37A +5V: 3.78A +3.3V: 2.69A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-10°C~75°C (-14°F~167°F)
Relative Humidity	10%~90% (non-condensing)

Ordering Information

ECX810-06	Intel® EP80579, 600MHz ECX SBC w/ 3x Gigabit LAN
IB45	Cable kit for ECX810 series, w/ PS/2, SATA, COM, VGA and power cable
ID810	VGA/CRT daughter board
ID810L	LVDS daughter board
ID820	Audio daughter board
ASB200-810	Fanless system for ECX810 ECX SBC

Remarks:

* Specifications are subject to change without prior notice.

Motherboards

Disk-Size SBCs

CPU Modules

PC/104 Plus

CPU Cards

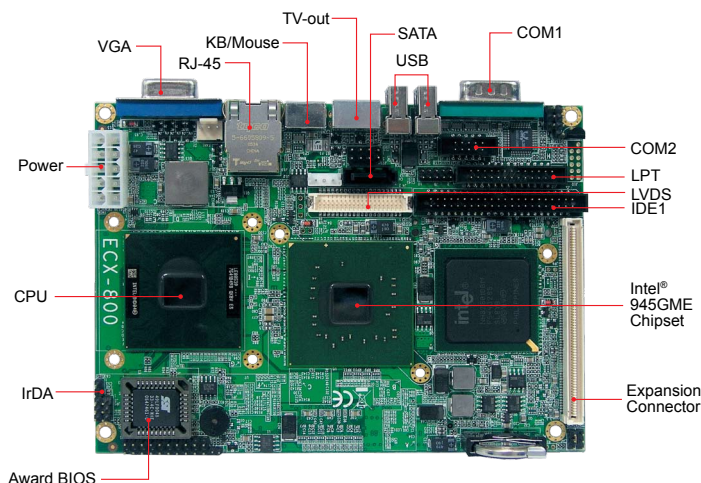
AGP & MicroAGP

Embedded Systems

Network Security Appliance



ECX800



System

CPU	Intel® Core™2 Duo / Core™ Duo processors, up to 1.66GHz (BGA CPU on board or socket M)
System Memory	1x DDR2 SO-DIMM, Max. 2GB
System Chipset	Mobile Intel® 945GME + ICH7M, 533MHz/667MHz FSB
BIOS	Award
Watchdog Timer	256 levels
SSD	Type II CF socket
H/W Monitor	Yes
Expansion Slot	1x PCI, 1x PCI-E(x1), 1x LPC, 1x SDVO (Region C, Type III)

Graphics

VGA Controller	Mobile Intel® 945GME integrated VGA, supports CRT/ S-Video
VGA Memory	DVMT 3.0 support; Max memory allocation based on total system memory
LCD Interface	Supports 18-bit single or dual channel LVDS

LAN

Controller	Marvell 88E8053 PCI-E Gigabit LAN
Connector	RJ-45 on board

Multi I/O

I/O Chipset	W83627EHF 1x IDE (UDMA33/66/100), 1x FDD, 1x KB, 1x Mouse, 1x LPT, 2x RS-232, 1x SATA
USB	4 ports on board (USB 2.0)
Audio	Intel® ICH7M Built-in audio + AC97 codec, SPDIF-OUT
Others	IrDA, TV-out, Digital I/O (4-in/4-out)

Features

- Supports Intel® Core™2 Duo processors
Up to 2.33GHz, 533/667MHz FSB
- 1x DDR2 SO-DIMM, Max. 2GB
- Integrated VGA, supports CRT and TV-out
- Marvell 88E8053 PCI-E Gigabit LAN
- 1x SATA, 4x USB 2.0, Digital I/O, CF socket
- 1x PCI, 1x PCI-E(x1), 1x LPC, 1x SDVO
(Region C, Type III)

Mechanical and Environmental

Dimensions	105mm x 146mm (4.13" x 5.75")
Max. Power Requirement	Intel® Core™ Duo (L2400) 1.66GHz w/ 1GB DDR2 +3.3V: 1.54A +5V: 1.86A +12V: 1.15A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

Ordering Information

ECX800H	Socket M Intel® 945GME ECX SBC w/ VGA and Gigabit LAN
ECX800H-D16	Intel® Core™ Duo 1.66GHz, 945GME ECX SBC w/ VGA, Gigabit LAN
IB38	Cable kit for ECX800 series, w/ IDE, COM, SATA, printer, audio and power cable
ID490	PCI-E(x1) single/dual LVDS card (see page 35)
ID491	PCI-E(x1) DVI card (see page 35)
CSB110-800	Chassis for ECX800 ECX SBC (see page 111)

Remarks:

* Specifications are subject to change without prior notice.