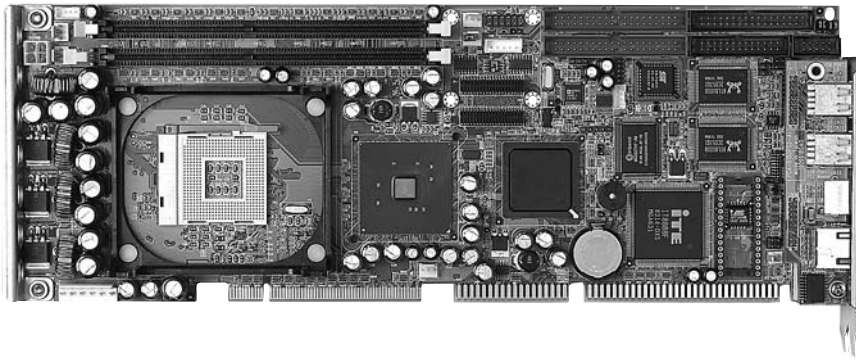


ECB-875

Intel Pentium 4/
Celeron Full-size CPU card



FEATURES

- Socket 478 supports Intel mPGA Pentium 4 CPU with FSB up to 533MHz
- On-board two 184 -pin DIMM sockets supports up to 2GB DDR 266/200 SDRAM
- Dual 10/100Base-Tx Fast Ethernet
- Intel 82845GV GMCH 2D/3D Extreme Graphics Accelerator with 64MB Display Memory
- Supports M-Systems DiskOnChip 2000
- Optional LVDS/TTL Digital Video interfaces
- 2 COM/4 USB 2.0/1 Parallel/1 IrDA port

Ordering information

- ECB-875

SPECIFICATIONS

General Functions

CPU	Supports Intel mPGA 478 Pentium 4 with FSB 400/533MHz
	Supports Intel mPGA 478 Celeron with FSB 400MHz
CPU socket	Intel Socket 478
BIOS	Award 512KB Flash BIOS
Chipset	Intel FW82845GV GMCH/FW82801DB ICH4
I/O Chipset	Winbond W83627HF-AW
Memory	184 pin DIMM x 2 sockets, Max. 2GB DDR 266/200 SDRAM
Enhanced IDE	Supports up to four IDE devices UDMA 100
FDD interface	Supports two floppy disk drives
Parallel port	One bi-directional parallel port
Serial port	One RS-232 serial port and one RS-232/422/485 selectable port
IR interface	115k bps, IrDA 1.0 compliant
KB/Mouse connector	One 6-pin mini DIN connector. Supports PS/2 keyboard and mouse
USB connectors	Supports four USB 2.0 ports
Watchdog timer	Reset/IRQx; 1 sec. ~ 255 min., 1 sec. Or 1 min./step
H/W status monitor	System Monitor (fan, temperature, voltage)
ISA driving capacity	Built-in Address/Data buffer supports driving capacity up to 64mA

Display Interface

Chipset	Intel FW82845GV GMCH with 2D/3D graphics engine
Display memory	8-64MB frame buffer using system memory
Resolution interface	CRT mode: 1600 x 1200 @ 32 bpp (85Hz) LCD/Simultaneous mode: 1600 x 1200 @32 bpp (85Hz)
VGA/LCD interface	AGP 4X VGA/LCD interface
LVDS	Optional dual-channel, 2 x 24-bit
PanelLink	Optional SIL 164 Transmitter, 24-bit
TV-Out	Optional CH7017A Supports both S-Video and composite video

Audio Interface

Chipset	Intel FW82801DB 1CH4
AC97 Codec	AD1881A
Audio interface	Mic in, Line in, CD audio in, Line out

Ethernet Interface

Chipset	Dual Realtek 8100B or Intel 82550/82559/82559ER
Ethernet interface	IEEE 802.3u 100Base-Tx Fast Ethernet compatible
Remote Boot-ROM	Optional built-in boot ROM in Flash BIOS

SSD Interface

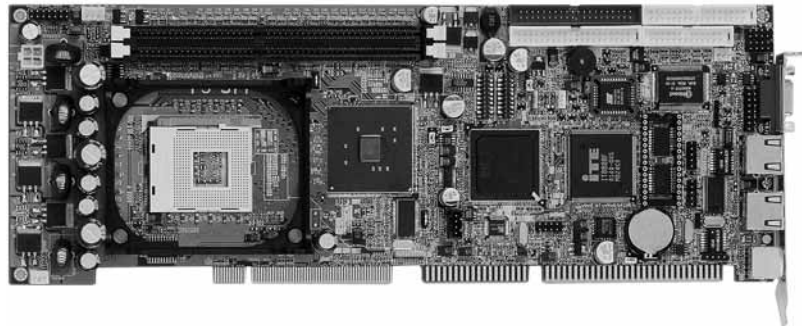
	One M-Systems DiskOnChip, optional one CompactFlash Type I/II
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Mechanical and Environmental

Power supply voltage	+5V & +12V
Power type	AT/ATX
Operating temperature	0 to 60°C
Board size	338mm x 122mm
Weight	0.6kg

ECB-872H

Intel Socket 478 Pentium 4
Full-size CPU card



FEATURES

- Socket 478 supports Intel mPGA Pentium 4 CPU with FSB up to 533MHz
- On-board two 184 -pin DIMM sockets supports up to 2GB PC1600/PC2100 DDR SDRAM
- Dual Intel PCI-bus 10/100Base-Tx Fast Ethernet
- Intel 82845G/82845GL Integrated Advanced Intel 2D/3D AGP 4X graphics engine
- Supports M-Systems DiskOnChip 2000 up to 1GB
- Optional LVDS/TTL Digital Video interfaces
- Enhanced ISA bus High Drive design

SPECIFICATIONS

General Functions

CPU	Supports Intel mPGA 478 Pentium 4 up to 2.4GHz or above (FSB 533/400MHz) Intel 0.13/0.18-micron Northwood/Willamette Pentium 4 CPU supported
CPU socket	Intel Socket 478
BIOS	Award 2 Mbit FWH BIOS
Chipset	Intel 82845G (for ECB-872H)/82845GL (for ECB-872)
I/O Chipset	Winbond W83977F-A
Memory	184 pin DIMM x 2 sockets, Max. 2GB
Enhanced IDE	Supports up to four IDE devices (UDMA 100) 20 x 2 header x 2 onboard
FDD interface	Supports two floppy disk drives, 3.5" (720KB, 1.44MB and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP and EPP modes
Serial port	Two RS-232 serial ports. Ports can be configured as COM1, COM2, COM3, COM4 or disabled individually. 16C550 equivalent
IR interface	IR connector supports one IrDA Tx/Rx header
KB/Mouse connector	One 6-pin mini DIN connector. Supports PS/2 keyboard and mouse
USB connectors	Two 5 x 2 headers onboard supports four USB 2.0 ports
DMA channels	7
Interrupt levels	15
Watchdog timer	Active NMI or reset programmable watchdog timer with 1 to 255 seconds or minutes of timeout value
Power management	Supports ATX power supply. Supports PC98, LAN wake up and modem ring-in functions. I/O peripheral devices support power saving and doze/standby/suspend modes APM 1.2 compliant

VGA Interface

Chipset	Intel 82845G AGP 4X VGA controller with 256/128-bit 3D/2D engine
Display memory	Featuring Intel's Dynamic Video Memory Technology (DVMT) and Zone Rendering Technology (ZRT)
Interface	AGP 4X, Accelerator Graphics Ports 2.0 compliant

Audio Interface

Chipset	Intel 82801DB 1CH4
AC97 Codec	ALC201A
Audio controller	AC97 ver. 2.2 Multi-stream Direct Sound and Direct Sound 3D acceleration
Audio interface	Mic in, Line in, CD audio in, Line out

Ethernet Interface

Chipset	One Intel 82801DB ICH4 built-in and one 82559ER PCI-bus Ethernet controllers on-board
Ethernet interface	PCI10/100 Mbps
Remote Boot-ROM	For diskless system

SSD Interface

	One 32-pin DIP socket supports M-Systems DiskOnChip 2000 series, up to 1GB
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Mechanical and Environmental

Power supply voltage	+5V(4.75V to 5.25V) +12V(11.4V to 12.6V) -12V (-11.4V to -12.6V)
Operating temperature	0 to 60°C
Board size	338mm x 122mm
Weight	0.5kg

ECB-862

Intel Tualatin Pentium III/
Celeron Full-size CPU card



FEATURES

- Supports Intel Pentium III/Celeron (Coppermine & Tualatin) Processor
- 2 COM/4 USB/1 Parallel/1 IrDA port
- VIA Apollo PLE133T VT8602 with integrated AGP 2X 2D/3D graphics accelerator with 8MB display memory
- Supports DiskOnChip
- Supports CRT and 24-bit TFT panels
- Dual Realtek 8100B 10/100Base-Tx Fast Ethernet

Ordering information

- ECB-862
Intel Pentium III/Celeron Full-size CPU card with LCD, 3D Graphics, AC 97 Audio and Dual 10/100Base-Tx Ethernet
- ECB-862L
Same as above, but without LCD, AC97 Audio, with single 10/100Base-Tx Ethernet

SPECIFICATIONS

General Functions

CPU	Supports Intel Pentium III/Celeron (CopperMine and Tualatin), VIA C3
FSB	66/100/133MHz
BIOS	AMI 256KB Flash BIOS
Chipset	VIA Apollo PLE133T VT8602/VT82C686B
I/O Chipset	VIA VT82C686B
Memory	168 pin DIMM x 2, Max. 1GB
Enhanced IDE	Supports up to four IDE devices (UDMA 100)
FDD interface	Supports two floppy disk drives
Parallel port	One bi-directional parallel port
Serial port	One RS-232 and one RS-232/422/485 serial ports
IrDA	115Kbps IrDA 1.0 compliant
KB/Mouse connector	1 x K/B & Mouse
USB connectors	2 x USB 1.1, 4 x USB 2.0 ports (ECB-862 only)
Watchdog timer	Reset/IRQx; 2 ~ 255 sec., 1 sec./step
H/W status monitor	Monitoring temperatures, voltages, and cooling fan status. Auto throttling control when CPU overheats
ISA driving capacity	Built-in Address/Data buffer supports driving capacity up to 64mA

Flat Panel/CRT Interface

Chipset	VIA PLE133T VT8602 with integrated 2D/3D graphics engine
Display memory	2/4/8MB frame buffer using system memory
Resolution	CRT mode: 1280 x 1024 @ 24bpp (60Hz) LCD/simultaneous mode: 1280 x 1024 @ 24bpp (60Hz)
VGA/LCD interface	AGP 2X VGA/LCD interface. Supports 9/12/18/24-bit TFT and 16/24-bit DSTN panels
TV-Out	Optional VIA VT1621. Supports both S-Video and composite video

Audio Interface

Chipset	VIA VT82C686B
AC97 Codec	VT1612A
Audio interface	Mic in, Line in, CD audio in, Line out

Ethernet Interface

Chipset	Dual Realtek RTL8100B or optional Intel 8259982559ER
Ethernet interface	IEE 802.3u 100Base-TX Fast Ethernet compatible
Remote Boot-ROM	Optional built-in boot ROM in Flash BIOS

SSD Interface

One M-Systems DiskOnChip, optional one CompactFlash type I/II socket

Mechanical and Environmental

Power requirements	+5V @ 4.29A, +12V @ 103mA (with VIA C3 733MHz & 256MB SDRAM) +5V @ 5.32A, +12V @ 177mA (with Pentium III 1.2GHz & 256MB SDRAM)
Operating temperature	0 to 60°C
Board size	338mm x 122mm
Weight	0.6kg