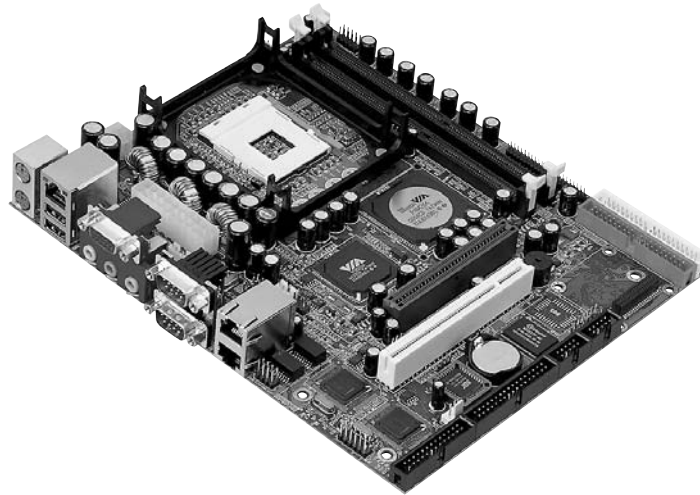


EMB-9470

Intel Pentium 4/
Celeron Flex ATX Main Board



FEATURES

- Supports Intel mPGA478 Pentium 4 CPU with FSB 400/533 MHz
- Two 184-pin DIMM sockets support up to 2 GB DDR 266/200 ECC/Non-ECC SDRAM
- 4 COM/4 USB 2.0/1 Parallel/1 IrDA
- One VIA VT6103 and Dual Realtek 8139C 10/100Base-Tx Fast Ethernet
- VIA P4M266A Integrated S3 Savage 4 AGP 4X 2D/3D graphic accelerator with 32MB display memory

Ordering Information

- EMB-9470
Intel Pentium 4/Celeron Flex ATX Main Board with LCD, 3D graphics, AC97 Audio and Triple 10/100Base-Tx Ethernet
- EMB-9470L
Same as above but with Dual 10/100Base-Tx Ethernet

SPECIFICATIONS

General Functions

CPU	Supports Intel mPGA 478 Pentium 4 with 400/533MHz FSB
FSB	400/533MHz
BIOS	Award 256K Flash BIOS
Chipset	VIA P4M266A VT8751A/VT8235
I/O Chipset	ITE IT8712F/ITE 8874F
Memory	Two 184 pin DIMM sockets support up to 2GB DDR 266/200 SDRAM with ECC supported
Enhanced IDE	Supports up to four IDE devices (UDMA 133)
FDD interface	Supports two floppy disk drives
Parallel port	One bi-directional parallel port
Serial port	Three RS-232 serial port and One RS-232/422/485 serial port
IrDA	115 kbs, IrDA 1.0 compliant
KB/Mouse connector	Supports PS/2 keyboard and mouse
USB connectors	4 x USB 2.0 ports
Watchdog timer	Reset IRQx; 255 steps and 1 sec. or 1 min./step
H/W status monitoring	Monitoring Temperatures, voltages, and cooling fan status Auto throttling control when CPU overheats
Expansion interface	One PCI, one AGP 4X/2X slot

VGA/LCD Interface

Chipset	VIA VT8751A with integrated S3 Savage4 3D/2D graphic engine
Display memory	8/16/32MB frame buffer using system memory
Resolution	CRT mode: 1920 x 1440 @ 16bpp (60Hz) LCD/Simultaneous mode: 1280 x 1024 @ 16bpp (60Hz)
VGA/LCD interface Interface	AGP 4x VGA/LCD Optional SmartASIC SP1015E converter module supports 9/12/18/24/36/48-bit TFT panels

Audio

Chipset	VIA VT8235
AC97 Codec	VIA VT1612A
Audio interface	Mic in, Line in CD Audio in, Line out

Ethernet Interface

Chipset	One VIA VT6103 and dual Realtek RTL 8139C or optional Intel 82559/82559ER
Ethernet interface	IEEE 802.3u 100Base-Tx Fast Ethernet
Remote boot ROM	Optional built-in boot ROM in Flash BIOS

SSD Interface

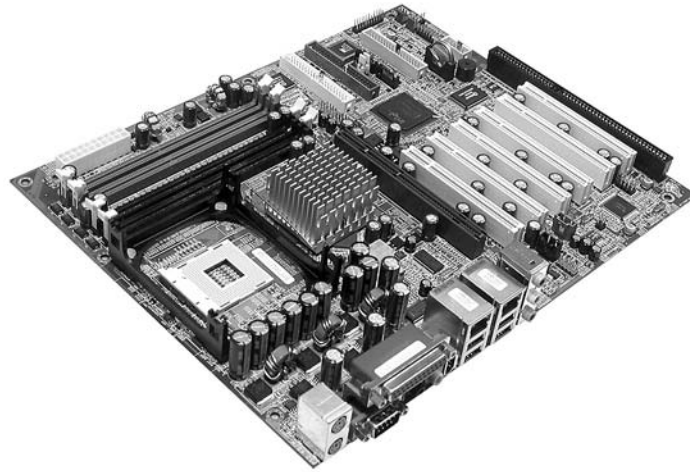
	One 44-pin M-Systems DiskOnChip IDE Pro socket
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Mechanical and Environmental

Power supply voltage	+5V @ 200mA, +12V @ 4.3A (with Pentium 4 Celeron 1.5GHz & 256MB DDR SDRAM)
Power type	ATX
Operating temperature	0 to 50°C
Board size	229mm x 190.5mm
Weight	0.4kg

EMB-9277

Intel Pentium 4/
Celeron ATX Main Board



FEATURES

- Supports Intel mPGA478 Pentium 4 CPU with FSB 400/533 MHz
- Four 184-pin DIMM sockets support up to 4 GB DDR 400/333/266 ECC/Non-ECC SDRAM
- Dual SATA PORTS Supports RAID 0.1/ 2 COM/8 USB 2.0/1 Parallel/1 IrDA
- One Intel 82562ET 10/100Base-Tx Fast Ethernet
- Universal 0.8V/1.5V AGP 3.0 connector supports 1/4/8X AGP cards
- TI TSB43AB22 IEEE-1394 Controller supports Dual IEEE-1394 ports

Ordering Information

- EMB-9277 Intel Pentium 4/Celeron ATX Main Board with SATA, IEEE-1394, AC97 Audio, One 10/100Base-Tx & One 10/100/1000Base-Tx Ethernet

SPECIFICATIONS

General Functions

CPU	Supports Intel mPGA 478 Pentium 4 with 533/800MHz FSB Supports TCPA specification V1.1b (Trusted Computing Platform Alliance)
FSB	533/800MHz
BIOS	Award 512KB Flash BIOS
Chipset	Intel FW82875P MCH/FW82801EB ICH5
I/O Chipset	Winbond W83627HF-AW
Memory	Four 184 pin DIMM sockets support up to 4GB DDR 400/333/266 SDRAM with ECC supported
Enhanced IDE	Supports up to four SATA, four EIDE devices (Ultra DMA 100)
FDD interface	Supports two floppy disk drives
Parallel port	One bi-directional parallel port
Serial port	Two RS-232 serial ports
IrDA	115 kbs, IrDA 1.0 compliant
KB/Mouse connector	Supports PS/2 keyboard and mouse
USB connectors	8 x USB 2.0 ports
IEEE 1394	Ti TSB43AB22 supports 2 x IEEE 1394A ports
H/W status monitoring	Monitoring Temperatures, voltages, and cooling fan status Auto throttling control when CPU overheats
Expansion interface	Six PCI, one PCI or ISA, one AGP 8X/4X/2X slot

Audio

Chipset	Intel FW82801EB ICH5
AC97 Codec	ALC650 supports 5.1 CH Audio
Audio interface	Mic in, Line in CD Audio in, Line out

Ethernet Interface

Chipset	Intel 82562ET and Intel 82540EM
Ethernet interface	IEEE 802.3u 100Base-Tx / IEEE 802.3 1000Base-Tx Fast Ethernet
Remote boot ROM	Optional built-in boot ROM in Flash BIOS

Mechanical and Environmental

Power type	ATX
Operating temperature	0 to 50°C
Board size	305mm x 244mm
Weight	0.4kg

EMB-9271

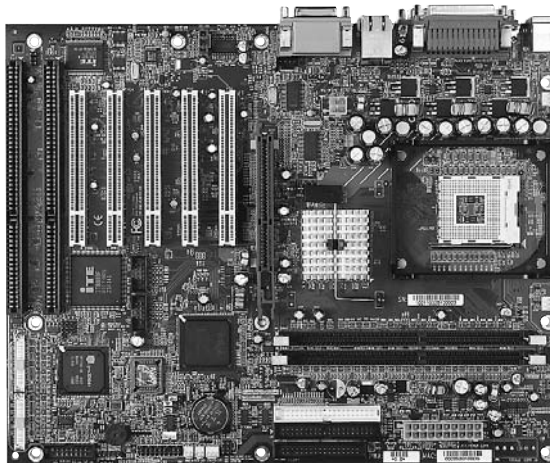
Intel Pentium 4/
Celeron ATX Main Board

FEATURES

- Supports Intel mPGA478 Pentium 4 CPU with FSB 400/533 MHz
- Two 184-pin DIMM sockets support up to 2 GB DDR 266/200 ECC/Non-ECC SDRAM
- 2 COM/6 USB 2.0/1 Parallel/1 IrDA
- AGP connector supports 1/2/4X AGP cards
- SMI Lynx 3DM+ SM722 2D/3D graphic accelerator with embedded 4MB SGRAM
- Supports CRT, 24-bit TFT, Single-channel 24-bit LVDS panels

Ordering Information

- EMB-9271
Intel Pentium 4/Celeron ATX Main Board with LCD, Dual channel LVDS, AC97 Audio & Single 10/100Base-TX Ethernet



SPECIFICATIONS

General Functions

CPU	Supports Intel mPGA 478 Pentium 4 with FSB 400/533MHz Support Intel mPGA 478 Celeron with FSB 400MHz
FSB	400/533MHz
BIOS	Award 512KB Flash BIOS
Chipset	Intel FW82845E MCH/FW82801DB ICH4
I/O Chipset	ITE IT8712F
Memory	Two 184 pin DIMM sockets support up to 2GB DDR 266/200 SDRAM with ECC supported
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	Two RS-232 serial ports
IrDA	115 kbs, IrDA 1.0 compliant
KB/Mouse connector	Supports PS/2 keyboard and mouse
USB connectors	6 x USB 2.0 ports
DI/O	4-bit TTL DI and 4-bit TTL DO
Watchdog timer	Reset IRQx; 32 sec. ~ 254 min. and 1 min./step
H/W status monitoring	Monitoring Temperatures, voltages, and cooling fan status Auto throttling control when CPU overheats
Expansion interface	Four PCI, one ISA, one PCI/ISA, one AGP 4X/2X slot

VGA/LCD Interface

Chipset	SMI Lynx 3DM+ SM722 3D/2D graphic engine
Display memory	4MB SGRAM frame buffer
Resolution	CRT mode: 1280 x 1024 @ 24bpp (60Hz) LCD/Simultaneous mode: 1280 x 1024 @ 16bpp (60Hz)
VGA/LCD interface	PCI bus VGA/LCD interface Supports 9/12/18/24/36/48-bit TFT and 16/24-bit colour DSTN panels
LVDS	Single-channel, 1 x 24-bit

Audio

Chipset	Intel FW82801DBICH4
AC97 Codec	AD1885
Audio interface	Mic in, Line in CD Audio in, Line out

Ethernet Interface

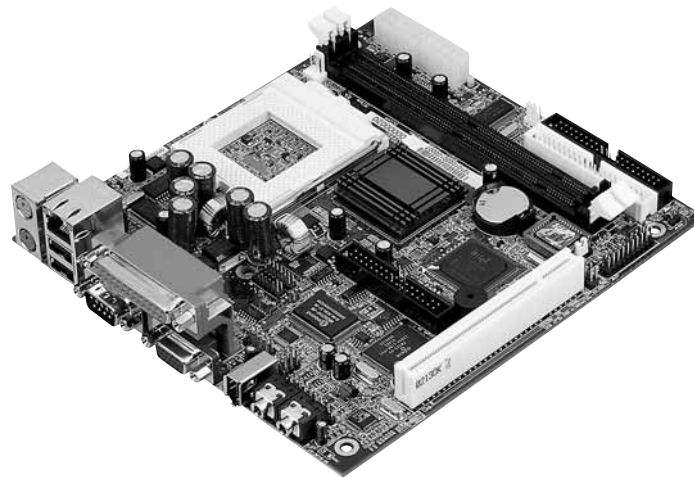
Chipset	Intel 82562ET
Ethernet interface	IEEE 802.3u 100Base-Tx Fast Ethernet
Remote boot ROM	Optional built-in boot ROM in Flash BIOS

Mechanical and Environmental

Power type	ATX
Operating temperature	0 to 50°C
Board size	305mm x 244mm
Weight	0.4kg

EMB-9660

Intel Tualatin Pentium III/
Celeron Mini ITX Main Board



FEATURES

- Supports Intel Pentium III/Celeron (Coppermine & Tualatin) Processor
- Agere FW323-05 Integrated 1394A host controller supports Dual IEEE 1394A ports
- Intel 82562ET 10/100Base-Tx Fast Ethernet
- 2 COM/4 USB/1 Parallel/1 IrDA port
- Supports CRT and optional 48-bit TFT panels
- Intel 82815EG GMCH 2D/3D Graphics Accelerator

Ordering Information

- EMB-9660
Intel Tualatin Pentium III/Celeron Mini ITX Main Board with LCD, 3D graphics, IEEE 1394A AC97 Audio & Single 10/100Base-TX Ethernet

SPECIFICATIONS

General Functions

CPU	Supports Intel Pentium III/Celeron (Coppermine & Tualatin) & VIA C3
FSB	66/100/133
BIOS	Award 256KB Flash BIOS
Chipset	Intel FW82815EG GMCH/FW82801BA ICH2
I/O Chipset	Winbond W83627HF-AW
Memory	Two 168 pin DIMM sockets, support up to 512MB 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	Two RS-232 serial ports
IrDA	115k bps, IrDA 1.0 compliant
KB/Mouse connector	Supports PS/2 keyboard and mouse
USB connectors	Supports four USB 1.1 ports
IEEE 1394A	Agere FW323-05 Integrated 1394A host controller supports Dual IEEE 1394A ports
Expansion	One PCI slot

VGA/LCD Interface

Chipset	Intel FW82815EG GMCH 2D/3D graphics accelerator
Display memory	1/2/4MB frame buffer using system memory
Resolution	CRT mode: 1280 x 1024 @ 32bpp (85Hz) LCD/Simultaneous mode: 1280 x 1024 @ 32bpp (85Hz)
VGA/LCD interface	AGP 4X VGA/LCD interface Optional SmartASIC SP1015E DVO TTL converter module supports 9/12/18/24/36/48-bit TFT panels

Audio

Chipset	Intel FW82801BA 1CH2
AC97 Codec	AD1885
Audio interface	Mic in, Line in, CD audio in, Line out

Ethernet Interface

Chipset	Intel 82562ET
Ethernet interface	IEEE 802.3u 100Base-Tx Fast Ethernet compatible
Remote boot ROM	Optional built-in boot ROM in Flash BIOS

Mechanical and Environmental

Power supply voltage	+5V @ 3.9A, +12V @ 20mA (with Celeron 1.2GHz & 128MB SDRAM)
Power type	ATX
Operating temperature	0 to 50°C
Board size	185mm x 170mm
Weight	0.4kg