

MB-i9450

ATX Pentium D LGA775 Industrial Motherboard with CRT/LCD & LAN



Features

- Support LGA775 Pentium 4/Pentium D/Celeron D Processor
- Intel 945G + ICH7R Chipset, FSB 533/800/1066MHz
- Support Dual Channel DDRII SDRAM up to 2GB
- Intel 945G Integrated VGA for CRT
- Support 4 x SATA 300MB/s Ports
- Support 1 x PCIe x16 for Graphic Card
- **Dual Gigabit LAN**
- Support 2 x PCIe x1 Slots
- Support 8 x USB 2.0 Ports

System

CPU	LGA775 Pentium 4/Pentium D/Celeron D processor FSB533/800/1066MHz
Memory	Support Two 240-pin DDRII SDRAM DIMM socket Up to 2GB
Chipset	Intel 945G + ICH7R
BIOS	Phoenix-Award PnP Flash BIOS
ATA/IDE	Support 1 x ATA-100/66/33 IDE drive 4 x Serial ATA (300MB/s)
Watchdog Timer	255-level Reset

I/O

Serial Port	4 x RS-232 ports
Parallel Port	SPP/EPP/ECP mode select by BIOS setting
Floppy	Support 2 Floppy disk drives
USB Port	8 x USB 2.0 ports
Expansion Bus	4 x 32 bit/33MHz PCI slots 2 x PCIe x1 slots 1 x PCIe x16 slot
KB/MS	Two Mini-DIN for PS/2 K/B and Mouse connector
Digital I/O	Onboard 8 bit Digital I/O interface

Ethernet

Chipset	Dual Intel 82573V for 10/100/1000 base-T Ethernet
----------------	---------------------------------------------------

Audio

Codec/Interface	Realtek ALC655 AC97 Codec, support Mic-In/Line-In/Line-out
------------------------	------------------------------------------------------------

Display

Graphics Chipset	Intel 945G integrated Intel Graphic Media Accelerator 950 VGA Up to 192 MByte maximum video memory
Graphics Interface	CRT Support up to 2048 x 1536

Mechanical & Environmental

Power Type	ATX 24-pin
Operating Temp.	0 ~ 60°C (32 ~ 140°F)
Operating Humidity	0 ~ 90% (non-condensing)
Dimension (L x W)	305 x 220 mm (12" x 9.6")

Ordering Information

MB-i9450VL2G	Industrial LGA775 Motherboard with 4 x COM, 4 x SATA, 8 x USB, Audio, Dual Gigabit LAN
Cable Kit	CBK-06-9450-00 Page 5-2

MB-i7412

ATX Pentium 4 Socket 478 Industrial Motherboard with CRT, 4 x COM, SATA, Audio & Dual LAN



Features

- Support Intel Pentium 4 Socket 478, Supporting Hyper-Threading Technology with FSB5400/633/800MHz
- Support Dual Channel DDR SDRAM up to 4GB
- Support Dual Intel 10/100 Base-T Ethernet
- Support 3 x RS-232, 1 x RS-232/422/485
- Support AGP 4X/8X Slot
- Support 8 x USB 2.0 Ports
- **Support 1 x ISA Slot**

System

CPU	Intel Pentium 4 socket 478 CPU up to 3.4GHz FSB400/533/800MHz
Cache	2nd level 1MByte
Memory	4 x 184-pin DIMM up to 4GB DDR SDRAM
Chipset	Intel 865GV + ICH5
BIOS	Phoenix-Award PnP Flash BIOS
ATA/IDE	2 x Ultra DMA100, support 4 IDE drives 2 x Serial ATA (150MB/s), support 2 IDE drives
Watchdog Timer	255-level Reset

I/O

Model	MB-i7412VL	MB-i7412VL2
Serial Port	1 x DB9 port (COM1) 1 x RS-232 port (COM2)	1 x DB9 port (COM1) 2 x RS-232 ports (COM3, 4) 1 x RS-232/422/485 port (COM2)
Parallel Port	SPP/EPP/ECP mode	
Floppy	Support 2 Floppy disk drives	
IrDA	None	1 x SIR IrDA 1.1 compliant
USB Port	6 x USB 2.0 compliant	8 x USB 2.0 compliant
Digital I/O	None	8 bit Digital Input/Output
KB/MS	1 x PS2 K/B and Mouse	
Expansion Bus	1 x 4X/8X AGP Slot 5 x 32 bit/33MHz PCI Slot 1 x ISA Slot	
	None	1 x Compact Flash Disk Socket
	None	1 x 32 bit/33MHz Mini PCI Socket

Ethernet

Model	MB-i7412VL	MB-i7412VL2 (optional)
Chipset	Intel 82562EZ 10/100 base-T	Dual 10/100 base-T (Intel 82562EZ + 82551QM)

Audio

Codec/Interface	Realtek ALC655 AC97 Codec, support Mic-in/Line-in/Line-out
------------------------	------------------------------------------------------------

Display

Graphics Chipset	Intel 865GV Extreme Graphics2 Engine up to 64Mbyte UMA Video RAM
Graphics Interface	CRT Support up to 2048 x 1536

Mechanical & Environmental

Power Type	ATX 20-pin
Operating Temp.	0 ~ 60°C (32 ~ 140°F)
Operating Humidity	0 ~ 90% (non-condensing)
Dimension (L x W)	305 x 244 mm (12" x 9.6")

Ordering Information

MB-i7412VL	Industrial Pentium 4 socket 478 Motherboard with CRT, 2 x COM, SATAI, Audio and LAN ATX, Intel Pentium 4/Celeron FSB800MHz
MB-i7412VL2 (Optional)	Industrial Pentium 4 socket 478 Motherboard with CRT, 4 x COM, SATAI, Audio and Dual LAN
Cable Kit	CBK-07-7412-00

All Specifications are subject to be changed without notice

ITX-i9453

Mini-ITX Intel Core™ Duo Processor Industrial Motherboard with CRT, LCD, TV-out and Dual LAN



◀ New!!

Features

- Support Intel Core™ Duo Processor up to FSB667MHz
- Support Dual Channel DDRII SDRAM up to 2GB
- Support Dual Display (Independent Display)
- Support 18/36 bit LVDS, DVI, CRT and TV-out
- **Support Dual Gigabit Ethernet**
- Support 2 x SATA 300MB/s, 8 x USB 2.0 Ports, 2 x Serial Ports
- **Support PCIe x16 Expansion Slot**

System

CPU	Socket 479 Intel Core™ Duo processor with FSB667MHz
Memory	2 x 240-pin Dual channel DDRII DIMM Socket up to 2GB
Chipset	Intel 945GM + Intel ICH7M
BIOS	Phoenix-Award PnP Flash BIOS
ATA/IDE	1 x Ultra DMA 100, support 2 IDE drives 2 x Serial ATA (300MB/s)
Flash Disk	1x Type II Compact Flash Disk Socket
Watchdog Timer	255-level Reset

I/O

Serial Port	COM1: RS-232 COM2: RS-232/422/485 Selectable
Parallel Port	SPP/EPP/ECP mode
Floppy	Support 1 Floppy disk drive share with LPT port
IrDA	1 x SIR IrDA 1.1 compliant
USB Port	8 x USB 2.0 compliant
Expansion Bus	1 x PCIe x16 slot 1 x Mini PCI socket
KB/MS	1 x PS2 K/B and Mouse

Ethernet

Chipset	Dual Intel 82573V 10/100/1000 base-T Ethernet
----------------	-----------------------------------------------

Audio

Codec/Interface	Realtek ALC655 AC97 Codec, support Mic-in/Line-in/Line-out
------------------------	------------------------------------------------------------

Display

Graphics Chipset	Intel 945GM integrated GMA 950 support dual display, up to 192MByte Video RAM
Graphics Interface	CRT support up to 2048 x 1536 LVDS support 18/36 bit up to 1600 x 1200 DVI support 12 bit up to 1204 x 768 TV-out support NTSC/PAL, up to 1024 x 768

Mechanical & Environmental

Power Type	ATX 20-pin
Operating Temp.	0 ~ 60°C (32 ~ 140°F)
Operating Humidity	0 ~ 95% (non-condensing)
Dimension (L x W)	170 x 170 mm (6.7" x 6.7")

Ordering Information

ITX-i9453VL2G	Mini-ITX Intel Core™ Duo Industrial Motherboard with CRT/LCD/TV-out, SATAII, Dual Gb LAN, and PCI Express
Cable Kit	CBK-07-7435-00 Page 5-2

ITX-i7435

Mini-ITX Pentium M Socket 479 Industrial Motherboard with CRT,LCD,TV-out and Dual Gigabit LAN



Features

- Intel Socket 479 Pentium M/Celeron M Processor up to 2.0GHz FSB400/533MHz
- Support Dual Channel DDRII SDRAM up to 2GB
- Support Dual Display (Independent Display)
- Support 18/36 bit LVDS, DVI, CRT, and TV-out
- Support Dual Gigabit Ethernet
- 2 x SATA 150MB/s, 8 x USB 2.0 Ports, 2 x Serial Ports
- 1 x PCIe x16 Expansion Slot
- DC12V Power Input

System

CPU	Socket 479 for Intel Pentium M/Celeron M processor up to 2.0GHz FSB400/533MHz
Memory	2 x 240-pin DDRII DIMM socket up to 2GB
Chipset	Intel 915GM + ICH6M
BIOS	Phoenix-Award PnP Flash BIOS
ATA/IDE	1 x Ultra DMA 66/100, support 2 IDE drives 2 x Serial ATA (150MB/s)
Flash Disk	1 x Type II Compact Flash Disk socket
Watchdog Timer	255-level Reset

I/O

Serial Port	COM1: RS-232 COM2: RS-232/422/485 Selectable
Parallel Port	SPP/EPP/ECP mode
Floppy Disk	Support 1 x Floppy disk drive share with LPT port
IrDA	1 x SIR IrDA 1.1 compliant
USB Port	8 x USB 2.0 compliant
Expansion Bus	1 x PCIe x16 slot 1 x Mini PCI Socket

Ethernet

Chipset	Dual Intel 82573V 10/100/1000 base-T Ethernet LAN
----------------	---------------------------------------------------

Audio

Codec/Interface	Realtek ALC655 AC97 Codec, support MIC-in/Line-in/Line-out
------------------------	------------------------------------------------------------

Display

Graphics Chipset	Intel 915GM Integrated GMA900, share system memory up to 128MB
Graphics Interface	CRT support up to 2048 x 1536 LVDS support 18/36 bit up to 1600 x 1200 DVI support 12 bit up to 1280 x 1024 TV-out support NTSC/PAL, up to 1024 x 768

Mechanical & Environmental

Power Type	ITX-i7435VL2G: DC-IN 12V ITX-i7435VL2G/ATX: Standard ATX
Operating Temp.	0 ~ 60°C (32 ~ 140°F)
Operating Humidity	0 ~ 90% (non-condensing)
Dimension (L x W)	170 x 170 mm (6.7" x 6.7")

Ordering Information

ITX-i7435VL2G

Mini-ITX Pentium M Socket 479 Industrial Motherboard with CRT/LCD/TV-out, SATA, Dual Gb LAN and PCI Express

(DC-IN power support)

ITX-i7435VL2G/ATX

Same as above with standard ATX power support

Cable Kit

CBK-07-7435-00

Page 5-2

ITX-i7418

Mini-ITX Pentium M Socket 479 Industrial Motherboard with CRT, LCD and LAN



◀ New!!

Features

- Intel Socket 479 Pentium M/Celeron M Processor up to 1.8GHz FSB400MHz
- Support DDR 200/266 up to 2GB DDR SDRAM
- Support Dual Display (Independent Display)
- Support 18/36 bit LVDS and CRT
- Support 2 x RS-232 Ports
- Support 6 x USB 2.0 Ports
- ATX Power Input

System

CPU	Socket 479 for Intel Pentium M/Celeron M processor up to 1.8GHz FSB400MHz Onboard LV/ULV BGA type Pentium M/Celeron M processor
Cache	CPU on die
Memory	2 x 184-pin DDR DIMM Socket up to 2GB
Chipset	Intel 852GM + Intel ICH4
BIOS	Phoenix-Award PnP Flash BIOS
ATA/IDE	1 x Ultra DMA 100, support 2 IDE drives 1 x Ultra DMA 33, support 2 IDE drives
Flash Disk	1 x Type II Compact Flash Disk Socket
Watchdog Timer	255-level Reset

I/O

Serial Port	2 x RS-232 ports
Parallel Port	SPP/EPP/ECP mode
Floppy Disk	Support 2 Floppy disk drives
IrDA	1 x SIR IrDA 1.1 compliant
USB Port	6 x USB 2.0 compliant
Expansion Bus	1 x 32 bit/33MHz Mini PCI socket 1 x 32 bit/33MHz PCI slot
KB/MS	1 x PS2 K/B and Mouse
Digital I/O	8 bit Digital Input/Output

Ethernet

Chipset	Intel 82562EZ 10/100 base-T Ethernet
----------------	--------------------------------------

Audio

Codec/Interface	Realtek ALC655 AC97 Codec, support Mic-in/Line-in/Line-out
------------------------	------------------------------------------------------------

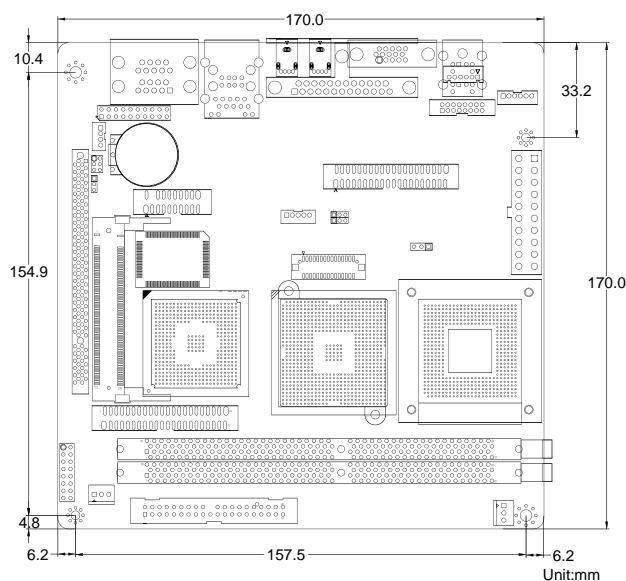
Display

Graphics Chipset	Intel 852GM Extreme Graphics2 Engine up to 64MByte UMA Video RAM
Graphics Interface	CRT support up to 2048 x 1536 LVDS support 18/36 bit up to 1600 x 1200 Dual mode independent display

Mechanical & Environmental

Power Type	ATX 12-pin
Operating Temp.	0 ~ 60°C (32 ~ 140°F)
Operating Humidity	0 ~ 95% (non-condensing)
Dimension (L x W)	170 x 170 mm (6.7" x 6.7")

Dimensions



Ordering Information

ITX-i7418VL w/o CF	Mini-ITX Pentium M Socket 479 Industrial Motherboard with CRT/LCD, Audio and LAN
ITX-i7418VL	Mini-ITX Pentium M Socket 479 Industrial Motherboard with CRT/LCD, Audio, CF Socket and LAN
ITX-i7418VL/CM600	Mini-ITX Celeron M 600MHz Industrial Motherboard with CRT/LCD, Audio, CF Socket and LAN
ITX-i7418VL/CM1000	Mini-ITX Celeron M 1.0GHz Industrial Motherboard with CRT/LCD, Audio, CF Socket and LAN
Cable Kit	CBK-05-7418-00

All Specifications are subject to be changed without notice

ITX-i7415

Mini-ITX Pentium M Socket 479 Industrial Motherboard with CRT, LCD, TV-out and LAN



Features

- Intel Socket 479 Pentium M/Celeron M Processor up to 1.8GHz FSB400MHz
- Support DDR 200/266 up to 2GB DDR SDRAM
- Support Dual Display (Independent Display)
- Support 18/36 bit LVDS, CRT, TV-out and DVI (Optional)
- Support 6 x RS-232 Ports
- Support 6 x USB 2.0 Ports
- Support Compact Flash Type I/II Socket up to 4GB
- DC-in 12V or ATX Power Input

System

CPU	Socket 479 for Intel® Pentium M/Celeron M processor up to 1.8GHz FSB400MHz Onboard LV/ULV BGA type Pentium M/Celeron M processor
Cache	CPU on die
Memory	2 x 184-pin DDR DIMM Socket up to 2GB
Chipset	Intel 852GM + Intel ICH4
BIOS	Phoenix-Award PnP Flash BIOS
ATA/IDE	1 x Ultra DMA 100, support 2 IDE drives 1 x Ultra DMA 33, support 2 IDE drives
Flash Disk	1 x Type II Compact Flash Disk Socket
Watchdog Timer	255-level Reset

I/O

Serial Port	5 x RS-232 ports (COM1/3/4/5/6) 1 x RS-232/422/485 port (COM2)
Parallel Port	SPP/EPP/ECP mode
Floppy	Support 2 Floppy disk drives
IrDA	1 x SIR IrDA 1.1 compliant
USB Port	6 x USB 2.0 compliant
Expansion Bus	1 x 32 bit/33MHz Mini PCI socket 1 x 32 bit/33MHz PCI slot
KB/MS	1 x PS2 K/B and Mouse
Digital I/O	8 bit Digital Input/Output

Ethernet

Chipset	Intel 82562EZ 10/100 base-T Ethernet
----------------	--------------------------------------

Audio

Codec/Interface	Realtek ALC655 AC97 Codec, support Mic-in/Line-in/Line-out
------------------------	------------------------------------------------------------

Display

Graphics Chipset	Intel 852GM Extreme Graphics2 Engine up to 64MByte UMA Video RAM
Graphics Interface	CRT support up to 2048 x 1536 LVDS support 18/36 bit up to 1600 x 1200 DVI support 12 bit up to 1280 x 1024 TV-out support NTSC/PAL up to 1024 x 768 Dual mode independent display

Mechanical & Environmental

Power Type	DC-in 12V or ATX power supply
Operating Temp.	0 ~ 60°C (32 ~ 140°F)
Operating Humidity	0 ~ 95% (non-condensing)
Dimension (L x W)	170 x 170 mm (6.7" x 6.7")

Ordering Information

ITX-i7415VL/6S	Mini-ITX Pentium M Socket 479 Industrial Motherboard with CRT/LCD/TV-out/LAN	
ITX-i7415VL/6S/CM600	Mini-ITX Celeron M 600MHz Industrial Motherboard with CRT/LCD/TV-out/LAN	
ITX-i7415VL/6S/CM1000 (Optional)	Mini-ITX Celeron M 1.0GHz Industrial Motherboard with CRT/LCD/TV-out/LAN	
Cable Kit	CBK-07-7415-00	Page 5-2
FCDB-1223	DVI Daughterboard	Page 5-5

All Specifications are subject to be changed without notice

ITX-v7000

Mini-ITX VIA NanoBGA2 Eden™/C7®-D Processor Industrial Motherboard with CRT, LCD, Audio and Dual LAN



◀ New!!

Features

- Support VIA NanoBGA2 Eden™/C7 Processor
- Support DDRII 400/533 SDRAM up to 1GB
- Support CRT, 18/24 bit LVDS
- Support Dual LAN
- Support 2 x SATA 150 MB/s
- Support 6 x USB 2.0 Ports
- Support 4 x Serial Ports

System

CPU	Onboard VIA NanoBGA2 Eden™ 1.0GHz CPU FSB400MHz Optional onboard VIA NanoBGA2 C7®-D 1.5GHz CPU FSB400MHz
Cache	2nd level 128KByte
Memory	1 x 240-pin DDRII DIMM socket up to 1GB
Chipset	VIA CN700 + VIA 8237R Plus
BIOS	Phoenix-Award PnP Flash BIOS
ATA/IDE	1 x Ultra DMA 66/100/133, support 2 IDE drives 2 x Serial ATA (150MB/s)
Watchdog Timer	255-level Reset

I/O

Serial Port	4 x RS-232 ports (1 for RS-232/422/485 Selectable)
Parallel Port	SPP/EPP/ECP mode
IrDA	1 x SIR IrDA 1.1 compliant
USB Port	6 x USB 2.0 compliant
Expansion Bus	1 x 32 bit/33MHz PCI Slot
KB/MS	1 x PS2 K/B and Mouse

Ethernet

Chipset	LAN1: VIA VT6103L PCI Phy 10/100 base-T LAN2: Realtek RTL8110S 1000 base-T (Gigabit) Realtek RTL8110C 10/100 base-T (optional)
----------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------

Audio

Codec/Interface	Realtek ALC655 AC97 Codec, support Mic-in/Line-in/Line-out
------------------------	------------------------------------------------------------

Display

Graphics Chipset	Integrated VIA UniChrome™ Pro AGP graphics with MPEG-2 decoding acceleration Share system memory 16/32/64MB
Graphics Interface	CRT support up to 1600 x 1200 LVDS support 18/24 bit up to 1600 x 1200

Mechanical & Environmental

Power Type	ATX 20-pin
Operating Temp.	0 ~ 60°C (32 ~ 140°F)
Operating Humidity	0 ~ 90°C (non-condensing)
Dimension (L x W)	170 x 170 mm (6.7" x 6.7")

Ordering Information

ITX-v7000VL2/E1000	Mini-ITX VIA Eden™ 1.0GHz Industrial Motherboard with CRT/LCD, Audio and Dual LAN (Gb LAN & 10/100)
ITX-v7000VL2/C1500 (Optional)	Mini-ITX VIA C7®-D 1.5GHz Industrial Motherboard with CRT/LCD, Audio and Dual 10/100 LAN

ITX-a7410

Mini-ITX AMD Socket 462 Low Power Geode NX Processor Industrial Motherboard with CRT/LCD, Audio, and LAN



◀ New!!

Features

- Support AMD Geode™ NX Processor
- 1 x DDR 266/333 SDRAM up to 1GB
- Support CRT and LCD
- Support 6 x USB 2.0 Ports
- Support 1 x ATA133 and 2 x SATA 150MB/s Interface
- 1 x PCI Interface
- Support 2 x RS-232 Serial Ports

System

CPU	Support AMD Socket 462 Geode™ NX 1250+ processor Support AMD Socket 462 Geode™ NX 1500+ processor Support AMD Socket 462 Geode™ NX 1750+ processor
Cache	128KB level 1 cache / 256KB level 2 cache
Memory	1 x 184-pin DDR DIMM socket up to 1GB
Chipset	SiS 741CX NB + 964 SB
BIOS	Phoenix-Award PnP Flash BIOS
ATA/IDE	2 x Serial ATA (150MB/s) 1 x ATA 133/100/66/33, support 2 IDE devices

I/O

Serial Port	2 x RS-232 ports (1 at rear panel, 1 for pin header)
Parallel Port	SPP/EPP/ECP mode
IrDA	1 x SIR IrDA 1.1 compliant
USB Port	6 x USB 2.0 ports compliant
Expansion Bus	1 x 32 bit/33MHz PCI slot
KB/MS	1 x PS2 K/B and Mouse

Ethernet

Chipset	Realtek RTL8201CL 10/100 base-T Ethernet
----------------	------------------------------------------

Audio

Codec/Interface	Realtek ALC655 AC97 Codec, support Mic-in/Line-in/Line-out
------------------------	------------------------------------------------------------

Display

Graphics Chipset	Integrated REAL 256E Graphic core engine Up to 200Mhz 3D engine clock speed Share Memory Size from 8MB and up to 64MB
Graphics Interface	CRT support up to 2048 x 1536 LCD support 18/36 bit LVDS up to 1920 x 1600

Mechanical & Environmental

Power Type	ATX 20-pin
Operating Temp.	0 ~ 55°C (32 ~ 131°F)
Operating Humidity	0% ~ 90% (non-condensing)
Dimension (L x W)	170 x 170 mm (6.7" x 6.7")

Ordering Information

ITX-a7410VL	Mini-ITX AMD Socket 462 Geode NX Industrial Motherboard with CRT/LCD, Audio and LAN
Processor	AMD Socket 462 Geode NX 1250+ CPU

All Specifications are subject to be changed without notice