

Embedded CPU Boards

5.25" CPU Boards

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Embedded CPU board Specification Comparison

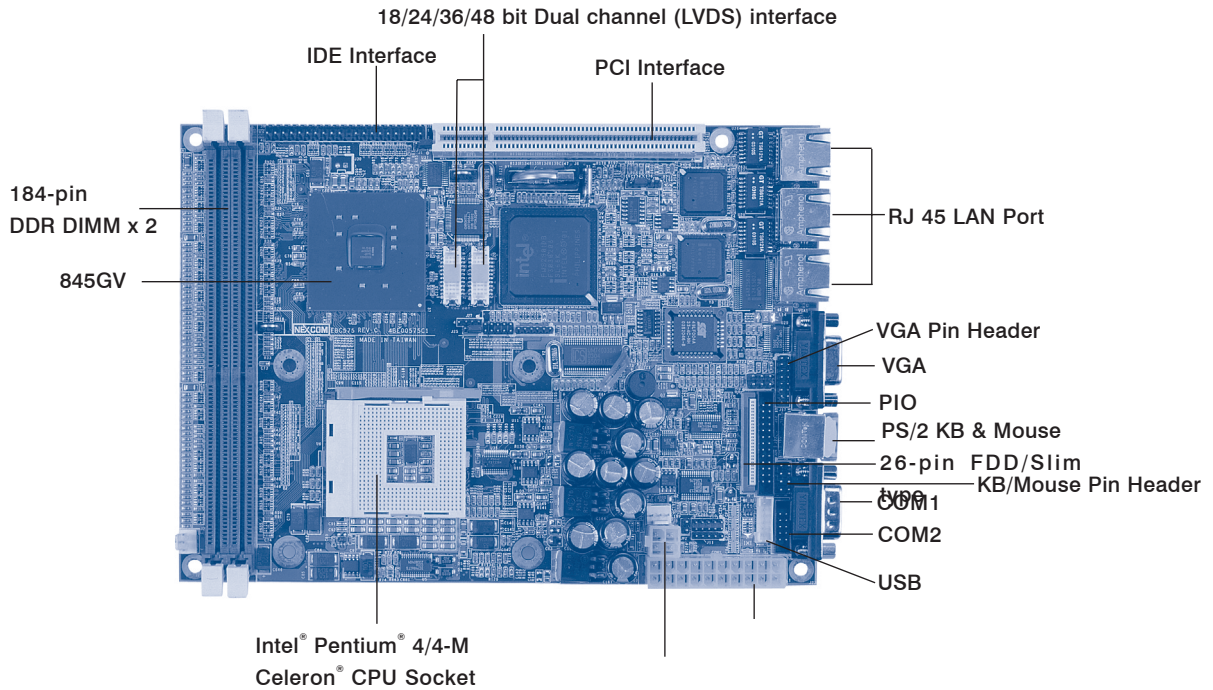
Model Name	EBC 563-1 /563	EBC 563LP6	EBC 569-1 /569	EBC 569LP6	EBC566	EBC 575	EBC 572	EBC567
PCB size	203mm (L) x 146mm (W) / 7.9"x5.8"							
Fan-less support	no	yes	no	yes	optional	no	no	No
CPU type	VIA C3	VIA Eden	VIA C3	VIA Eden	VIA C3	Intel P4-M / P4	Intel Pentium-M/ LV Pentium -M	VIA C3
CPU level	1GHz/800MHz	667MHz	1GHz/800MHz	667MHz	800MHz/1GHz/ 1.2GHz	3.06GHz	1.7GHz+	800MHz/1GHz/ 1.2GHz
Chipset	VIA 8601A		VIA 8606		CLE266	Intel 845GV	Intel 855GM/E	CLE266
CPU FSB	100/133MHz		100/133 MHz		100/133	400/533 MHz	400 MHz	100/133
Max. memory	512MB (SDRAMx1)		512MB (SDRAMx1)		1GB (DIMM x1)	2GB DDR 266/333 x 2	2GB DDR 266/333 x 2	1GB (DIMM x1)
VGA(VGA Memory)	VIA 8601A		VIA 8606 (8/16/32MB)		VIA 8623(64MB)	Intel 845GV (64MB)	Intel 855GM/E(64MB)	VIA 8623(64MB)
LCD interface (TTL LCD)	yes (24-bit)		yes (36 bit)		yes (24-bit)	no	no	no
LCD interface (LVDS LCD)	no		yes (1 channel)		Optional via daughter board	yes	yes	24bit x 2
LCD interface (TMDs LCD)	EBK Media 1		no		Yes	no	no	Yes
Ethernet	(Intel 82559 or Realtek 8139C/C+) x 3		RealTek 8139C/C+ x 2		VT 6105 x 2	Intel 82551QM x 2 + Integrated LAN x1	Intel 82551QM x1 + Integrated LAN x 1	VT 6105 x 1
Wake on LAN	no		no		Yes	yes	yes	Yes
Audio	EBK Media 1/ EBK AC97		AC 97		AC 97	EBK AC97	EBK AC97	AC 97
Compact Flash socket	EBK CF		on-board		on-board	on-board	on-board	on-board
SCSI	EBK SCSI 160D		EBK SCSI 160D		no	no	no	no
Disk-On-Chip	yes		no		no	no	no	no
IDE Interface	Ultra DMA 100		Ultra DMA 100		Ultra DMA 100	Ultra DMA 100	Ultra DMA 100	Ultra DMA 100
Serial port	2 x RS232		3 x RS232 + 1 x RS422/485		3 x RS232 + 1 x RS232/422/485	2 x RS232	3 x RS232 + 1 x RS232/422/485	4 x RS232 or 4RS485
USB	1.1 x 2		1.1 x 2		2.0 x 6	2.0 x 2	2.0 x 4	2.0 x 6
IEEE 1394	no		no		no	no	no	no
TV-out	no		no		no	no	EBC 572A	no
Digital I/O	4 xTTL DIO		4 xTTL DIO		8 x TTL DIO	8 xTTL DIO	8 x TTL DIO	8 x TTL DIO
Power Supply	+5V/+12V		+5V/+12V		ATX Power Connector	ATX Power Connector	ATX Power Connector	ATX Power Connector
5Vsb Input	yes (D Version)		no		yes	yes	yes	yes
Watch Dog Timer	yes		yes		yes	yes	yes	yes
Expansion	PCI Slots / NEXCOM PCI		PCI Slots / NEXCOM PCI / PC 104		PCI Slots/ PC 104+	PCI Slot	PCI Slots / PC104	PC 104+
Available Model	EBC 563I-1/EBC 563I EBC 563R-1/EBC 563R	EBC 563I-LP6 EBC 563R-LP6	EBC 569-1 EBC 569	EBC 569LP6	EBC566-LP8 EBC566 EBC566-12	EBC 575	EBC 572 EBC 572A	EBC567

Embedded CPU board Specification Comparison

Model name	EBC 365	EBC 365LP6	EBC 363-1	EBC 363	EBC 366	EBC565
PCB size	143mm (L) x 102mm (W) / 5.6"x4"					225mm (L) x 146mm / 8.9" x 6"
Fan-less support	no	no	no		yes	optional
CPU type	VIA C3	VIA Eden	VIA C3		Intel ULV	Intel Celeron
CPU Speed	800MHz	667MHz	1GHz	800MHz	650MHz	LV Celeron 650MHz ULV Celeron 400MHz
Chipset	VIA 8601A		VIA 8606		VIA CLE266	CLE266
CPU FSB	100/133MHz		100/133MHz		100/133MHz	100
Max. memory	512MB (SO-DIMMx1)		512MB (SO-DIMMx1)		1GB(SO-DIMMx1)	1GMB
VGA(VGA Memory)	VIA PLE 133 (2/4/8MB)		VIA 8606(8/16/32MB)		VIA 8623(64MB)	VIA8623(64MB)
Dual independent display	no		no		yes	yes
MPEG II support	no		no		yes	yes
Dual Display	no		no		yes	yes
LCD Interface (TTL LCD)	yes (24-bit)		yes (36-bit)		yes	yes
LCD Interface (LVDS LCD)	no		yes (2 channel)		no	no
LCD Interface (TMDS LCD)	optional		no		no	no
Ethernet	ADMTek AN983B		Realtek 8139C/C ⁺		VIA 6105	Realtek 8139C/C ⁺
Wake on LAN	yes		yes		yes	yes
Audio	AC 97 w/Amplifier 1.5W		AC97		AC97	AC97
Compact Flash socket	on-board		on-board		yes	yes
IDE Interface	Ultra DMA 100		Ultra DMA 100		Ultra DMA 100	Ultra DMA 100
Serial port	1xRS232 +1xRS232/422/485		1xRS232+1x RS422/485		2 x RS232	2 x RS232
USB	1.1 x 2		1.1 x 2		2.0 x 6	2.0 x 6
IEEE 1394	no		3		2	2
TV-out	optional		yes		yes	yes
Digital I/O	2 xTTL DIO		4 xTTL DIO		4 x TTL DIO	4 in/4 out
Power supply	+5V		+5V/+12V		+5V/+12V	+5V/+12V
5Vsb input	yes		yes		Optional	Optional
Watch Dog Timer	yes		yes		yes	yes
Expansion	Mini PCI		PCI 104 / NEXCOM PCI		no	PCI slot

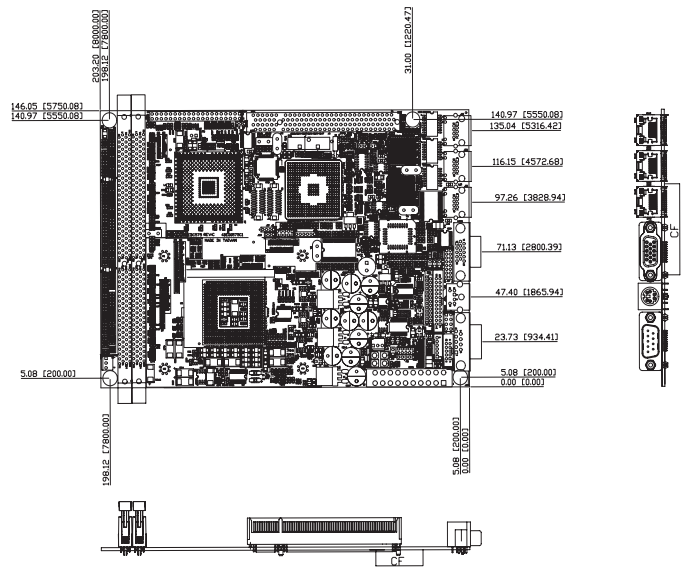
EBC 575

5.25" Intel® Pentium® 4/Celeron® Embedded CPU Board w/VGA/Tri-LAN/Audio/LVDS/CF



Features

- ◆ Socket 478 support Intel® Pentium® 4/4-M/Celeron processor up to 3.06 GHz+ with 400/533MHz FSB
- ◆ Intel® 845GV chipsets
- ◆ 184-pin DDR DIMM x 2, support DDR 266/333 memory up to 2 GB
- ◆ Intel® 82551 QM/82562EM 10/100 LAN x 3
- ◆ 18/24-bit LVDS Support
- ◆ Compact Flash
- ◆ USB port x 2



Specifications

System Architecture

- ◆ 5.25" drive from factor

CPU Support

- ◆ Single mPGA478 ZIP socket
- ◆ Support: Intel® Pentium® 4 processor up to 3.06 GHz with 400/533MHz FSB, 512KB L2 Cache
- ◆ Support: Intel® Pentium® 4-M/Celeron processor up to 2.4 GHz with 400MHz FSB

Memory

- ◆ 184-pin DDR DIMM x 2, support DDR266/333 memory up to 2 GB
- ◆ Support un-buffered non-ECC DIMM only
- ◆ Does not support double-sided x16 DDR Chip DIMMs
- ◆ Does not support stacking type memory DIMMs

BIOS

- ◆ Award System BIOS
- ◆ Plug & Play support



- ◆ ACPI 1.0b compliant
- ◆ 4M bits flash ROM

Chipset

- ◆ Intel® 845GV
- ◆ Intel® 82801DBx1 I/O controller Hub(ICH4)
- ◆ Firmware Hub(FWH) 4M bits flash ROMx1

LAN

- ◆ Intel® 82551QM (PRO/100 Network Connection) x 2 + ICH4 integrated LAN
- ◆ Intel® 82562 10/100 Fast Ethernet x 1
- ◆ LAN connector: RJ45(90°X) with LED connectorx3

Display

- ◆ Intel® 845GV chipset integrated with graphics controller
- ◆ AGP 4X interface (1.5V)
- ◆ Fully PC98 and PC99 compliant
- ◆ On-board LVDS transmitters
- ◆ 64MB VGA share memory
- ◆ Hardware motion compensation assist for software MPEG/DVD decode
- ◆ VGA: 15-pin D-sub connector x 1 (External 16-pin box header x 1)
- ◆ LVDS: DF-13-20DP connector x 2, support 18/24-bit single pixel LVDS, resolution support up to 1024 x 768

I/O Interface

- ◆ Serial port x 2, with 2x16C550 UARTs (10-pin header x 1, D-sub connector x 1)
- ◆ USB2.0 x 2 via one JST 2.0mm 6-pin connector
- ◆ HDD: 44-pin connectorx1, Ultra ATA 100/66/33 support
- ◆ Compact Flash Socket x 1
- ◆ Parallel port: 26-pin connectorx1, bi-directional , EPP/ECP support
- ◆ Floppy: Slim type connector x1
- ◆ PS/2 Keyboard/mouse: 6-pin mini-DIN connectorx1
- ◆ External keyboard: 5-pin connector
- ◆ AC'97 audio output: 10-pin headerx1 (support optional EBKAC97)
- ◆ CD-in/Line-in/Speaker-out: 4-pin connectorx3
- ◆ Digital I/O: 4bit TTL input, 4bit TTL output
- ◆ On-board buzzerx1
- ◆ SMBus 2.0 controller: JST 2.0mm 2-pin connectorx1
- ◆ Reset Switch/IDE active LED/ATX power Switch: 2-pin header connectorx3
- ◆ I2C: 2-pin connectorx1
- ◆ AUX: 12V power 4-pin connectorx1

Expansion

- ◆ Standard 32-bit PCI slot

System Monitor

- ◆ Derived from Super I/O ITE 8712F-A to support system voltage, fan speed, temperature monitoring

Real Time Clock

- ◆ On-chip RTC with battery back up
- ◆ External Lithium batteryx1

Watchdog Timer

- ◆ Watchdog timeout can be programmable by software from 1~256 seconds

Dimensions

- ◆ 203mm(L)x146mm(W)

Note:

- ◆ -Make sure that your ATX 12V power supply can provide at least 8mA on the 12V lead and at least 1 mA on the +5V volt standby lead(+5VSB)
- ◆ -The system may become unstable and may experience difficulty powering up if the power supply is inadequate.

Environments

- ◆ Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% (Non-condensing)

Certification

- ◆ CE
- ◆ FCC

Power requirements

- ◆ 20-pin ATX, 4-pin AUX power input connector
- ◆ EBC 575 power consumption (ATX power) running HCT 95 in Windows 2000 server
- ◆ A. Measure with P4 3.06GHz
 - ◆ a. +12V: 7.15A
 - ◆ b. +5V: 3.1A
 - ◆ c. +3.3V: 0.5A
 - ◆ d. +5vsb: 0.8A
- ◆ B. Measure with P4-M 2.4GHz
 - ◆ a. +12V: 3A
 - ◆ b. +5V: 2.7A
 - ◆ c. +3.3V: 0.5A
 - ◆ d. +5vsb: 0.1A

Ordering Information

EBC 575

Socket 478 for Intel® Pentium® 4-M processor with VGA/ LAN x 3 (Intel® 82551QM x 2 + ICH4 intergrated LAN)

Socket 478 for Intel® Pentium® 4-M processor with VGA/ LAN x 3 (Intel® 82551QM x 2 + ICH4 intergrated LAN)

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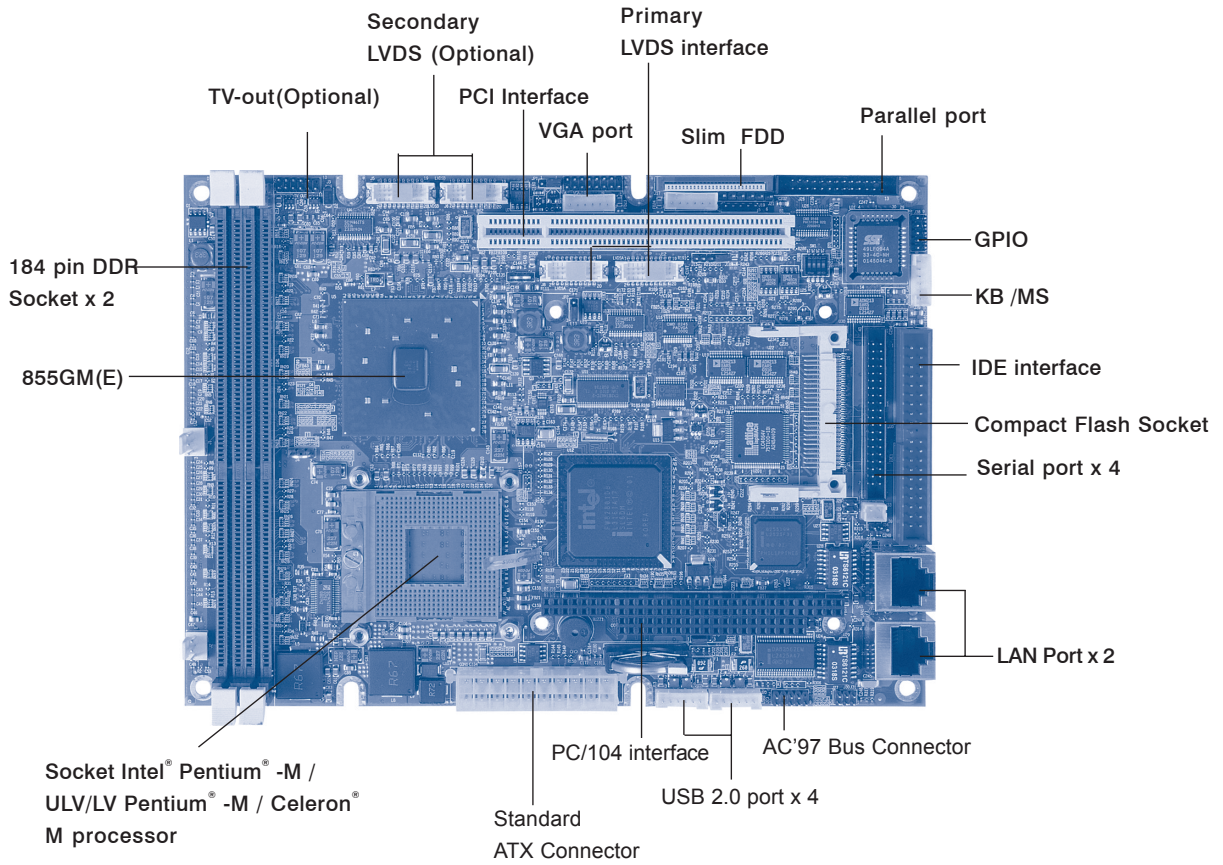
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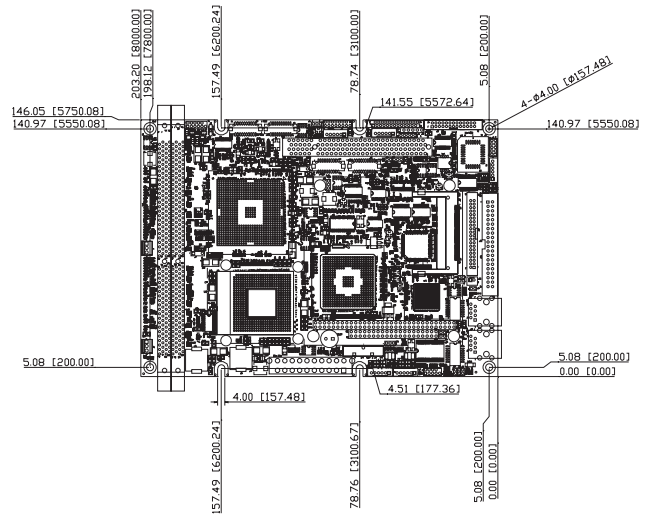
EBC 572

5.25" Intel® Pentium® M/Celeron® M embedded CPU board w/VGA/Dual/LAN/LVDS/CF



Features

- ◆ Support Intel® Pentium® M/Celeron® M processor up to 2GHz+ with 400MHz FSB
- ◆ Intel® 855GM(E) chipsets
- ◆ 184-pin DIMM x 2, support DDR 200/266/333 memory up to 2GB
- ◆ Intel®82551 QM/82562 EM 10/100 LAN x 2
- ◆ 36bit LVDS Support
- ◆ Compact Flash
- ◆ USB 2.0 Port x 4
- ◆ Support TV-Out function (Optional)
- ◆ PC104



Specifications

System Architecture

- ◆ 5.25" drive form factor

CPU support

- ◆ Single Micro-FCPGA Socket 478

- ◆ Support Intel® Pentium®-M processor: 1MB on die L2 Cache, 400MHz FSB, speed up to 1.70GHz
- ◆ Support Intel® Dothan processor: 2MB on die L2 Cache, 400MHz FSB, speed up to 1.8GHz



- ◆ Support Intel® Celeron-M processor: 512KB on die L2 Cache, 400MHz FSB, speed from 600MHz
- ◆ On-board Intel® Micro-FCBGA 479-pin Pentium® -M/ULV/LV Pentium®-M processor(option, with Min order Q'TY requirement)

Memory

- ◆ 184-pin DDR DIMM socket x 2 support un-buffered ECC DDR 200/266/333 up to 2 GB

BIOS

- ◆ Award System BIOS
- ◆ Plug & Play support
- ◆ ACPI 1.0b compliant
- ◆ 4M bits flash ROM

Chipset

- ◆ Intel® 855GM(E)
- ◆ Intel® 82801DB x 1 I/O controller Hub (ICH4)

LAN

- ◆ Intel® 82551QM 10/100 Fast Ethernet LAN x 1
- ◆ Intel® 82562EM 10/100 Fast Ethernet LAN x 1

Display

- ◆ Intel® 855GM(E) chipset integrated with graphics controller
- ◆ Up to 64MB of dynamic video memory allocation
- ◆ Hardware motion compensation assist for software MPEG/DVD decoder
- ◆ On-board LVDS transmitter
- ◆ VGA: 2.0mm pin header for CRT output
- ◆ LVDS: DF13-20DP, 20-pin connector x 2, support 18/24-bit single pixel or 18-bit dual pixel LVDS panel (resolution support up to 1280 x 1024)
- ◆ Optional LVDS: DF13-20DP, 20-pin connector x 2, support 18-bit single/dual pixel LVDS panel (resolution support up to 1400x1050)

I/O Interface

- ◆ Serial port: One 40-pin header, support 4 x 16C550 UARTs (3 x RS232 + 1 x RS 232/422/485)
- ◆ USB: JST 2.0mm 6-pin connector x 2, support USB2.0 x 4
- ◆ LAN: 10/100 Fast Ethernet LAN x 2 (90/180 degree)
- ◆ HDD: Ultra ATA 100/66/33 support, 40-pin connector x 1
- ◆ Compact Flash socket x 1
- ◆ Parallel port: bi-directional , EPP/ECP support, 26-pin connector x 1 (Box Header)
- ◆ FDD: Slim type connector x 1
- ◆ External keyboard/ Mouse: 6-Pin 2.00mm JST x 1
- ◆ Audio: ICH4 support AC'97 compliant, optional EBK AC 97 support Line-in, MIC-in, speak-out
- ◆ Digital I/O: 4-bit TTL input, 4-bit TTL output
- ◆ On-board buzzer x 1
- ◆ SMBus 2.0 controller: 2.0mm 2-pin header x 1
- ◆ Reset Switch/IDE active LED/ATX power Switch: 2-pin header connector x 3

Expansion

- ◆ Standard 32-bit PCI slot x 1 (5V only)
- ◆ PC104 x 1

System Monitor

- ◆ Derived from super I/O ITE 8712F-A to support system Voltage, fan speed, temperature monitoring

Real Time Clock

- ◆ On-chip RTC with battery back up
- ◆ External Lithium battery x 1

Watchdog Timer

- ◆ Software selectable time-out interval (1~128 sec. 1~127 min.)

Dimensions

- ◆ 203mm (L) x 146mm (W)

Optional Power Module

- ◆ EBKDX247: Power module to support input power from 14Vdc~24Vdc, AT mode only

Environments

- ◆ Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% (Non-condensing)

Certification

- ◆ CE
- ◆ FCC A

Power Requirements

- ◆ 20-pin ATX, power input connector
- ◆ Power consumption:
 - ◆ A. Measure with Pentium-M 1.1GHz
 - ◆ a. +12V: 0.1A
 - ◆ b. +5V: 2A
 - ◆ c. +3.3V 0.3A
 - ◆ d. +5vsb: 1A
 - ◆ B. Measure with Pentium-M 1.6GHz
 - ◆ a. +12V: 0.15A
 - ◆ b. +5V: 5.15A
 - ◆ c. +3.3V: 0.5A
 - ◆ d. +5vsb: 0.3A

Ordering Information

EBC 572

Intel® Pentium®-M processor with VGA/LAN x 2 (Intel® 82551QM x 1 + ICH4 intergrated LAN)

EBC 572A

Intel® Pentium®-M processor with VGA/LAN x 2 (Intel® 82551QM x 1 + ICH4 intergrated LAN) , TV-out,dual LVDS display support

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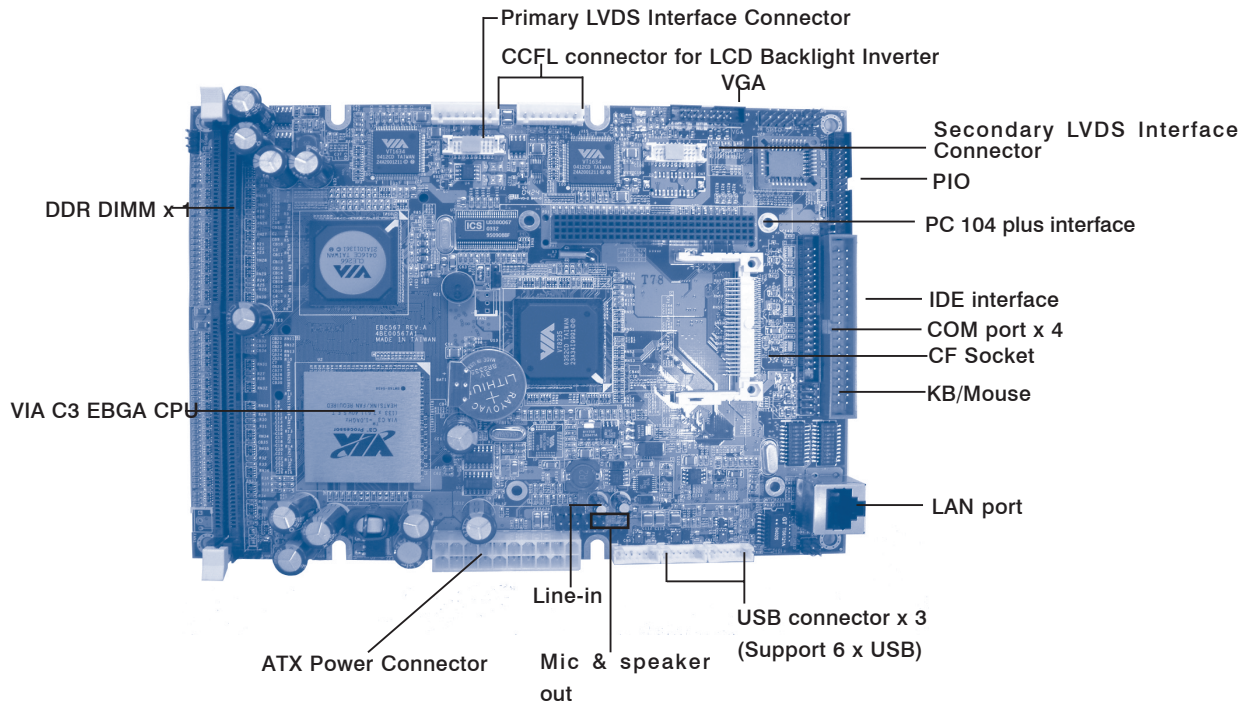
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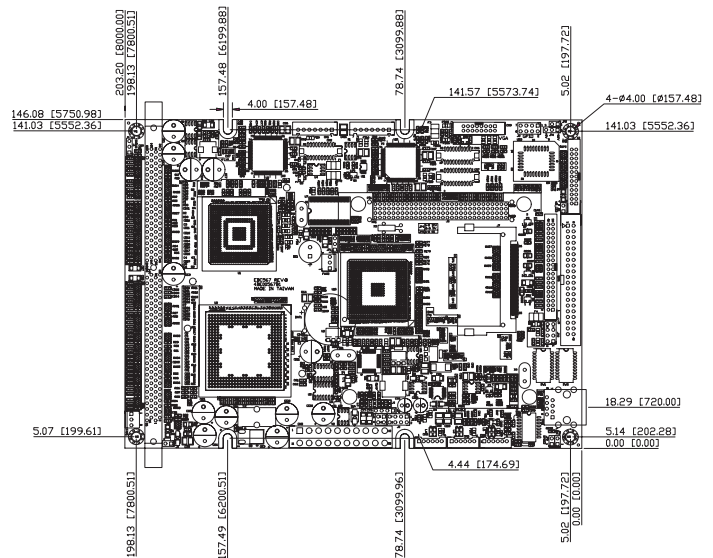
EBC 567

5.25" VIA C3 embedded CPU board w/CPU/VGA/LAN/Dual LVDS support



Features

- ◆ On-board VIA C3 400MHz ~ 1GHz processor with 100/133MHz FSB
- ◆ VIA CLE 266 chipsets
- ◆ 184 pin DIMM x 1, Support DDR 200/266 memory up to 1GB
- ◆ Dual independent LVDS support
- ◆ VIA 6105 10/100 LAN x 1
- ◆ COM port x 4 with RS232/RS485 support
- ◆ USB 2.0 x 6
- ◆ PC 104 plus



Specifications

System Architecture

- ◆ 5.25" size form factor

CPU support

- ◆ Support 400MHz-1G CPU with 100/133 MHz FSB
- ◆ On-board VIA C3 1G Processor EBGA Package with 128KB/Level 1 and 64KB/Level 2 Cache

Memory

- ◆ One 184-pin DDR SDRAM DIMM. Support DDR 200/266 MHz SDRAM up to 1G

BIOS

- ◆ Award system BIOS
- ◆ Advanced Configuration & Power Interface support
- ◆ 4M bits flash ROM
- ◆ Chipset



- ◆ VIA 8623 (CLE266) 100 /133 MHz North Bridge
- ◆ VIA VT8235
- ◆ LAN
- ◆ VIA VT6105 10/100 Fast Ethernet Controller x 1
- ◆ Single Chip 10 /100 Base TX support, full duplex
- ◆ 180 degree RJ45 connector x 1

Audio

- ◆ AC97 ver. 2.0 compliant interface from VT8235 Sound AC-97 Audio Interface
- ◆ Audio interface (Pin header): Line in, Microphone in, Speaker out (with Amplifier)

Display

- ◆ VIA CLE 266 Chipset intergraded Graphic Engine
- ◆ 16/32/64 MB frame buffer shared memory
- ◆ Full internal AGP 4X performance
- ◆ Support for resolutions up to 1024 x 768, single pixel, 18 bit LVDS panel
- ◆ Primary LVDS Interface Connector x 1 (Hirose DF13-20DP x 1)
- ◆ Secondary LVDS Interface Connector x 1 (Hirose DF13-20DP x 1)
- ◆ Linux 9.0 OS has no support on dual LVDS display
- ◆ 15Pin D-Sub CRT VGA Output

I/O Interface

- ◆ Serial port x 4, all support RS 232/485 (By Switch Selection)
- ◆ USB 2.0 port x 6 via JST 2.0mm x 3
- ◆ HDD: 40 pin connector x 1, support Ultra ATA33/66/100/133
- ◆ Internal Compact Flash socket x 1
- ◆ Parallel port: 26 pin connector x 1, bi-directional, EPP/ECP support
- ◆ PS/2 keyboard/mouse: 8 pins header connector x1
- ◆ GPIO (4 in 4 out)
- ◆ SMBus: 3-pin header
- ◆ On-board Buzzer x 1
- ◆ CCFL x 2 for LCD Panel Backlight Inverter Power
- ◆ On Board reset switch and power switch(ATX mode) button (2.54mm)
- ◆ On Board Power LED and HDD Active LED Pin Header (2.54mm)

Expansion

- ◆ PC104 Plus Expansion

Real Time Clocker

- ◆ On chip RTC with battery back up
- ◆ External Lithium Battery x 1

Watchdog Timer

- ◆ Watchdog timeout can be programmable by Software from 1 second to 64 Sec.

Environments

- ◆ Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% non-condensing)

Certification

- ◆ CE
- ◆ FCC Class A

Power Requirements

- ◆ 20 pin power input connector (standard ATX connector) CPU:1G running at HCT 9.5

- ◆ +3.3V is converted from +5V
- ◆ Power consumption: CPU 1G running at HCT 9.5
- ◆ a. +12V: 0.25A
- ◆ b. +5V: 5A
- ◆ c. +3.3V: 0A
- ◆ d. 5vsb: 0.3A

Ordering Information

EBC567

5.25" VIA Embedded Board with on board 1GHz CPU/LAN x 1 / VGA / Dual LVDS / Audio / Serial port x 4

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2 Industrial ATX MB

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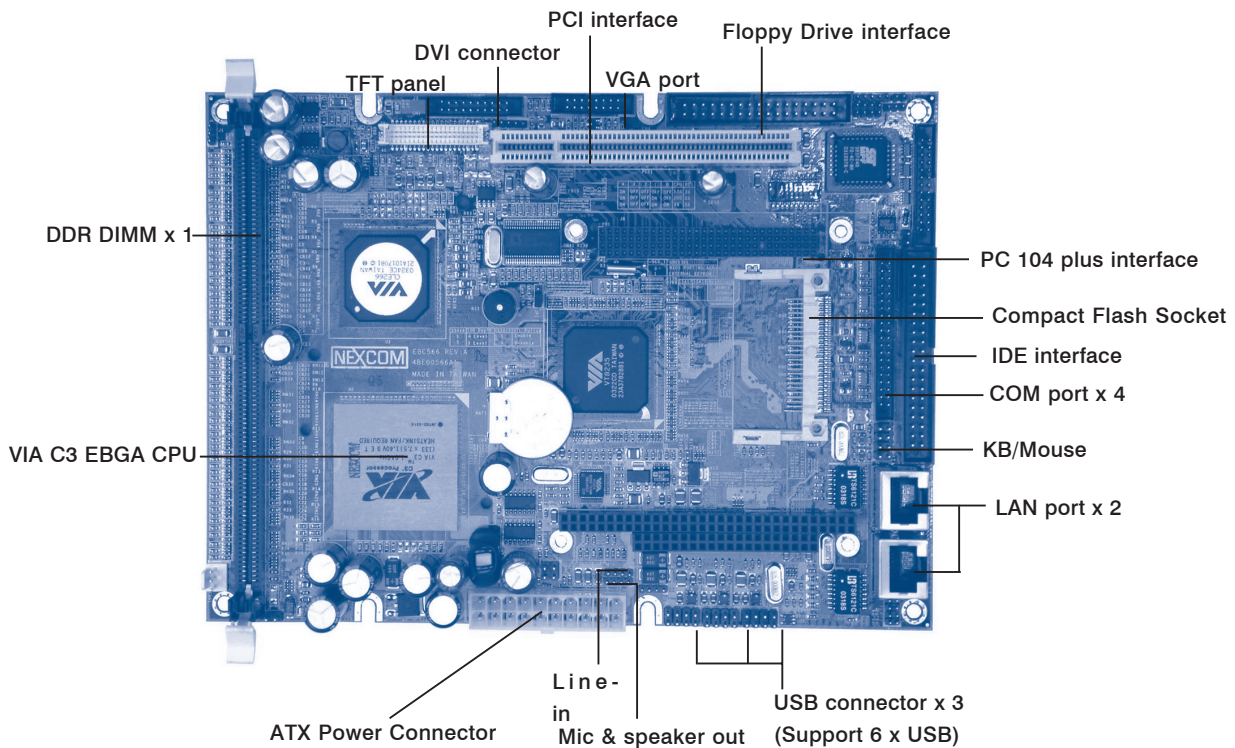
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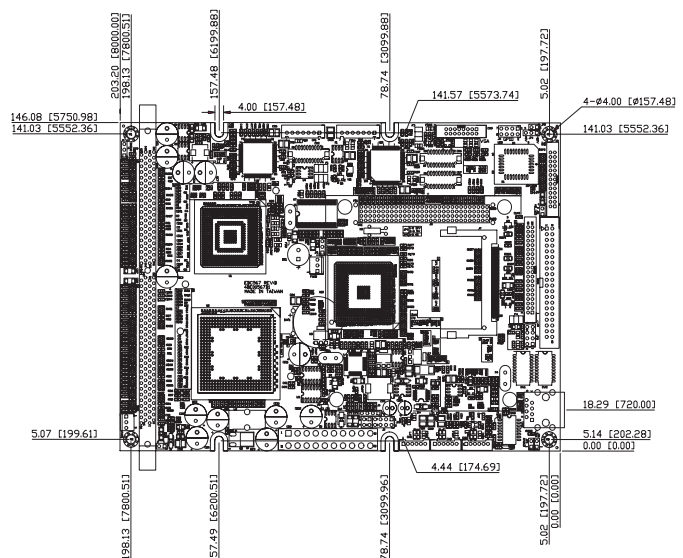
EBC 566

5.25" VIA C3 embedded CPU board w/VGA/Dual LAN/LVDS/CF



Features

- ◆ On-board VIA C3 400MHz ~ 1GHz processor with 100/133MHz FSB
- ◆ 184-pin DIMM x 1, support DDR 200/266 memory up to 1GB
- ◆ VIA 6105 10/100 LAN x 2
- ◆ Compact Flash
- ◆ USB 2.0 x 6
- ◆ PC 104 plus



Specifications

System Architecture

- ◆ 5.25" size form factor
- ◆ PCI V2.2 compliant

CPU support

- ◆ Support 400 MHz~1 GHz CPU with 100/133 MHz FSB
- ◆ On-board VIA C3 Processor EBGA Package with 128KB/Level 1 and

64KB/Level 2 Cache

Memory

- ◆ One 184-pin DDR SDRAM DIMM, support DDR 200/266 MHz SDRAM up to 1G

BIOS

- ◆ Award system BIOS



- ◆ Advanced Power Management support
- ◆ Optional ACPI Support
- ◆ 4M bits flash ROM

Chipset

- ◆ North Bridge VIA 8623 (CLE266) 100 /133 MHz
- ◆ VIA VT8235
- ◆ PCI V2.2 complied

LAN

- ◆ VIA VT6105 10/100 Fast Ethernet Controllerx2
- ◆ Drivers support: DOS/ Windows, Windows 98/2000, Windows NT, Netware , SCO Open Server 5.0, Linux 7.2 or later, FreeBSD
- ◆ Interface : RJ45 connector x 2
- ◆ Support Boot from LAN

Audio

- ◆ AC97 ver. 2.0 compliant interface from VT8235 Sound AC-97 Audio Interface CODEC: VT: 1616
- ◆ Audio interface: Line in (Internal), Microphone in, Speaker out (with Amplifier)

VGA (Hardware Disable is needed)

- ◆ 16 Pin VGA Output (box header 2.00mm 8 x 2pin)
- ◆ 18/24 TTL TFT flat panel interface (DF-13 connector 40 pin X1), support LVDS panel VIA optional EBKLVDS66 or EBKLVDS2 module
- ◆ 12 bit DVI 1.0 compatible interface, 20 pin box header connector x 1, for driving flat panel using external TMDS encoder
- ◆ Support for panel resolutions up to 1600x1200
- ◆ Driver support Windows 98/2000, Windows NT4.0, Win XP, Linux
- ◆ VIA 8623 S3 Graphics UniChrome AGP8x 2D/3D graphics engine
- ◆ Optimized Shared Memory Architecture (SMA)
- ◆ 8/16/32/64 MB frame buffer using system memory
- ◆ Single cycle 128-bit (2D), 1 Pipe, 2 Texture, dedicated (3D) architecture
- ◆ Full internal AGP 8X performance
- ◆ Next generation, 128-bit 2D graphics engine
- ◆ High quality DVD video playback
- ◆ 2D/3D resolutions up to 1920x1440

I/O Interface

- ◆ Power Header x 1 for LCD Panel Backlight
- ◆ COM reserved the RING pin to power Touch Screen LCD (jumper select 5 or 12V or ring)
- ◆ 3 pin Power Connector for CPU FAN and Chassis FAN
- ◆ 2 pin IDE Active LED Header
- ◆ SIO⁴, with 4x16C550 UARTs, 40 pin 2.0mm box header X 1 ; one for RS-422/485
- ◆ PIO x 1, bi-directional, EPP/ECP support, 26 pin connector x1
- ◆ Floppy Disk controller! FDC pin connector x1
- ◆ 2 x 4 pin header connector x1, for PS/2 keyboard/mouse
- ◆ On-board USB port x 6, Jst 2.0mm x 3
- ◆ On-board buzzer x1
- ◆ Digital I/O: 4 bit TTL input and 4 bit TTL Output 2x4 2.00mm pin header
- ◆ On-board 3 pin header for I2C, one pin for GND
- ◆ On-board 5 pin header for IrDA Tx/Rx
- ◆ On-board 2 pin header for Reset SW
- ◆ On-board 2 pin header for power SW (ATX Mode)

Expansion

- ◆ One 32 bit/33MHZ PCI Slot support PCI Expansion
- ◆ PC104 PLUS connector x 1

Real Time Clock

- ◆ On-chip RTC with battery back up
- ◆ External Li-Ion battery x 1

Watchdog Timer

- ◆ Watchdog timeout can be programmable by Software from 1 to 255 seconds / minutes

Dimension

- ◆ 203mm (L) x 146mm (W)

System Monitor

- ◆ Derived from super I/O to support system monitor
- ◆ 5 voltage (For +3.3V, +5V, +12V, Vcore and +2.5V)
- ◆ Monitor CPU fan speed and temperature
- ◆ Drivers support: Windows®98/2000, WindowsR NT4.0

Environments

- ◆ Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% (non-condensing)

Certification

- ◆ CE
- ◆ FCC

Power Requirements

- ◆ 20 pin power inport connector (standard ATX connector)
- ◆ Power consumption: EBC 566 Power Consumption (ATX Power) Running HCT 9.5 in Windows 2000 Server
- ◆ A. Measure with CPU 1.2GHz
 - ◆ a. +12V: 0.3A
 - ◆ b. +5V: 6A
 - ◆ c. +5vsb: 0.2A
- ◆ B. Measure with CPU 1GHz
 - ◆ a. +12V: 0.25A
 - ◆ b.+5V: 5.4A
 - ◆ c. 5vsb: 0.2A
- ◆ C. Measure with CPU 800MHz
 - ◆ a. +12V: 0.2A
 - ◆ b. +5V: 3.1A
 - ◆ c. 5vsb: 0.2A

Ordering Information

EBC 566LP8

5.25" VIA Embedded Board with on board Eden 800MHz CPU /2 x LAN/ VGA/Audio

EBC 566

5.25" VIA Embedded Board with on board 1GHz CPU /2 x LAN/VGA/Audio

EBC 566-12

5.25" VIA Embedded Board with on board 1.2GHz CPU /2 x LAN/VGA/ Audio

Wiring Kit for EBC 566(Optional)

P/N:29E0056600

1 Single Board Computers

2 Industrial ATX MB

3 Passive Backplanes

4 Compact PCI

5 Embedded CPU Boards

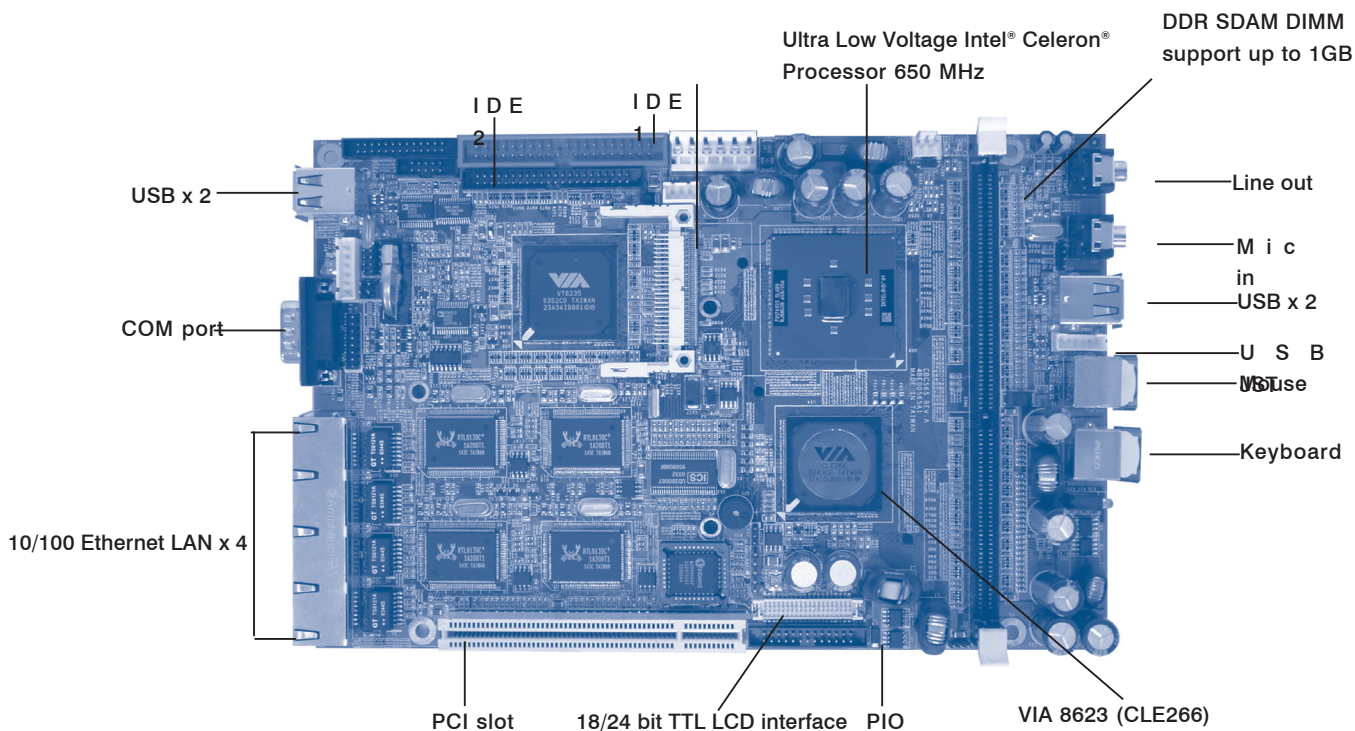
6 Embedded Systems

7 Network Security Appliances

8 Blade Servers

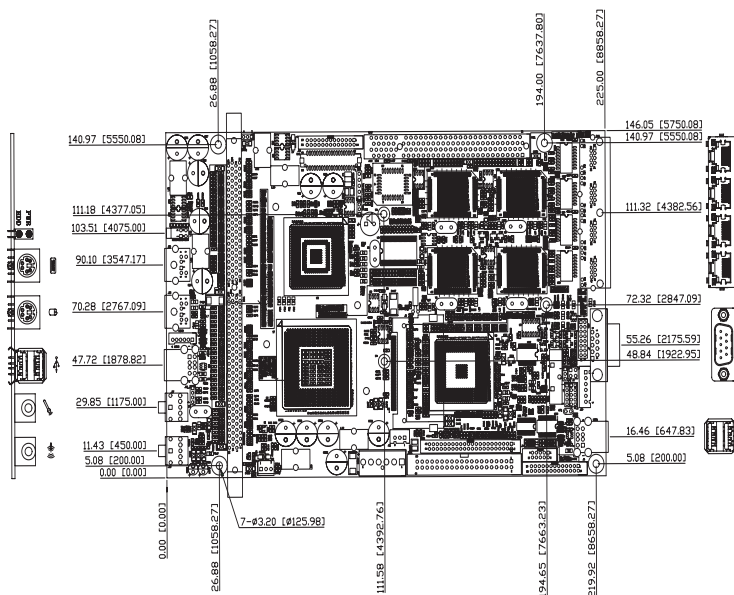
EBC 565

5.25" Ultra Low Voltage Intel® Celeron® 650MHz w/embedded CPU board w/ CPU/VGA/4 LAN/Audio/CF



Features

- ◆ On board Ultra Low Voltage Intel®Celeron 650MHz processor
- ◆ VIA CLE 266 chipsets
- ◆ 184-pin DIMM x 1, Support DDR 200/266 memory up to 1GB
- ◆ Realtek 8139 C(+) 10/100 LAN x 4
- ◆ Audio w/Speaker Out / Line in and Mic in
- ◆ USB 2.0 x 6
- ◆ Compact Flash



Specifications

Form Factor

- ◆ SamII form factor with Dimensions : 146mm (W) x 225mm (D)

CPU support

- ◆ On-board Ultra Low Voltage Intel Celeron 650MHz Processor Micro FC-BGA CPU at Vcore=1.1V 256KB L2 Cache
- ◆ Low Voltage LV Pentium III 933MHz processor with 133MHz FSB. 512KB

L2 Cache with Min Order Requirement

Memory

- ◆ One 184-pin DDR DIMM. Support DDR 200/266MHz Max memory size up to 1GB

BIOS

- ◆ Award System BIOS



- ◆ Advanced Power Management support
- ◆ 4M bits flash ROM

Chipset

- ◆ VIA 8623 (CLE 266) 100/133MHz North Bridge
- ◆ VIA VT8235

LAN

- ◆ Realtek 8139C+ LAN
- ◆ Single Chip 10/100 Base TX support, full duplex
- ◆ Compled with IEEE802.3X
- ◆ Boot from LAN function
- ◆ RJ45 with LED connector x 4

VGA

- ◆ VIA CLE 266 chipset integrated Graphic Engine Optimized Shared Memory Architecture (SMA)
- ◆ 16/32/64 MB frame buffer using system memory
- ◆ Full internal AGP 8X performance
- ◆ .2.0mm 16 pin Header for VGA output
- ◆ Interface of "Digital Interface Port 0" from CLE 266 for the future upgrade of DVI and TV and TV Out feature through Add-On Module. (2x13 26pins 2.0mm Box Header)
- ◆ High quality DVD video playback
- ◆ 18/24-bit TFT flat panel interface: TTL LCD Interface Connector x 1 (Hirose DF13-40DP x 1)
- ◆ Reserved the future upgrade of LVDS Panel support through the LVDS Transmitter Module

Audio

- ◆ VIA VT1616 CODEC for AC97 v2.1 CODEC
- ◆ Digital audio integrated in chipset
- ◆ Mic In. Line out Phone Jack. Line in connector on-board

I/O Interface

- ◆ DB9 x 1
- ◆ IDE Channel 1 : 180 ϕ X40 pin connector x 1
- ◆ SIO x 2, with 2x16C550 UARTS
- ◆ IDE Channel 1: 180 ϕ X 44 pin IDE connector x 1 (For 2.5" HDD or DOM)
- ◆ 2.0mm Box Header x 1
- ◆ PIO x 1, bi-directional, EPP/ECP support, Box header x 1
- ◆ Support Ultra DMA-33/66/100 IDE
- ◆ IDE Channel 2 : Compact Flash Socket x 1
- ◆ PS/2 keyboard/mouse in the front
- ◆ On board USB 2.0 port x 6 (2 ports in the front, 2 port at Rear , 2 port reserved by JST connector
- ◆ On Board buzzer x 1
- ◆ GPIO (4 in 4 out)
- ◆ On board 2 pin header for I2C
- ◆ On board 5 pin header for IrDA
- ◆ On Board reset SW and power SW Pin Header
- ◆ On Board Power LED and HDD Active LED (Also reserved Pin Header)
- ◆ 3 pin FAN connecgtor x 1 reserved

Expansion Slot

- ◆ Standard PCI Slot

Real Time Clock

- ◆ On chip RTC with battery back up

- ◆ External Li Battery x 1

Watchdog Timer

- ◆ Watchdog timeout can be programmable by Software

Dimensions

- ◆ Small form factor with dimensions of 146mm(W) x 225mm(D)

Environments

- ◆ Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% (non-condensing)

Certification

- ◆ CE
- ◆ FCC Class A

Power Requirement

- ◆ Power consumption: measure with Intel Celeron 650MHz
- ◆ a. +12V: 0.6A
- ◆ b. +5V: 2.9A

Ordering Information

EBC 565R-LV6

5.25" Embedded Board with on board Intel Celeron 650MHZ CPU, VGA/ 4 Realtek 8139C+ LANs / Audio / DDR DIMM Socket x1.

1 Single Board Computers

2 Industrial ATX MB

3 Passive Backplanes

4 Compact PCI

5 Embedded CPU Boards

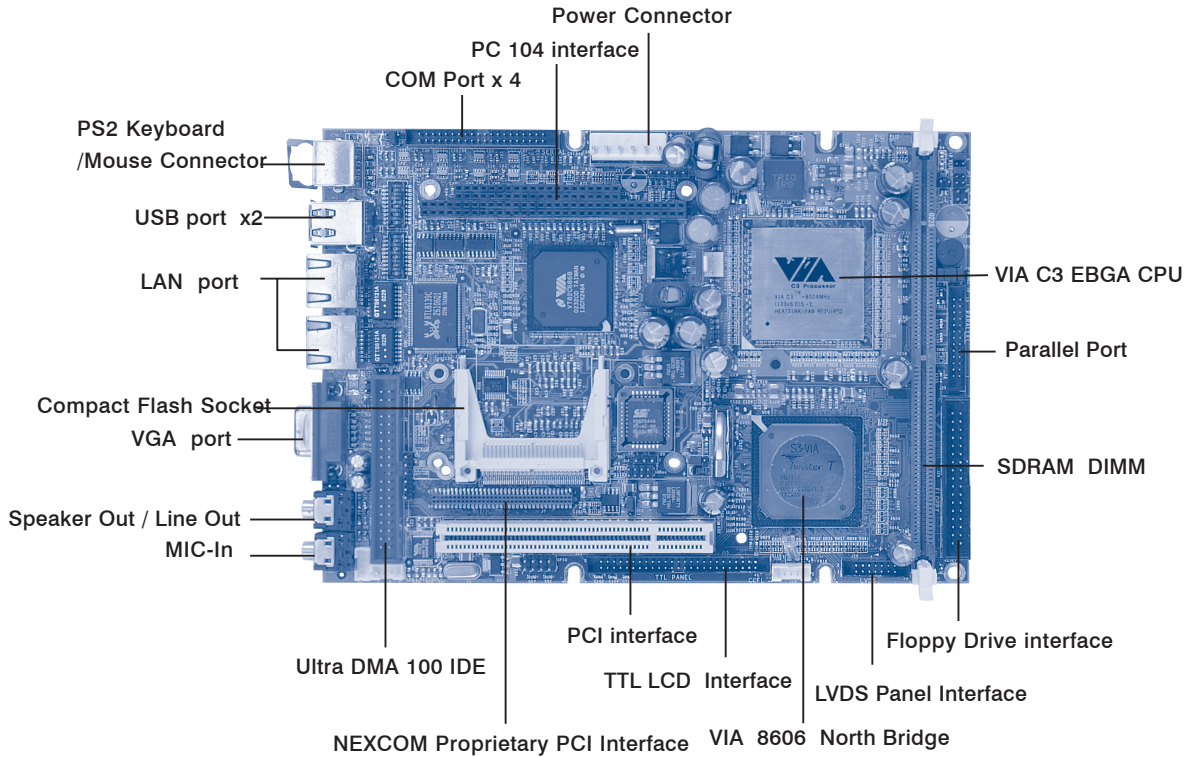
6 Embedded Systems

7 Network Security Appliances

8 Blade Servers

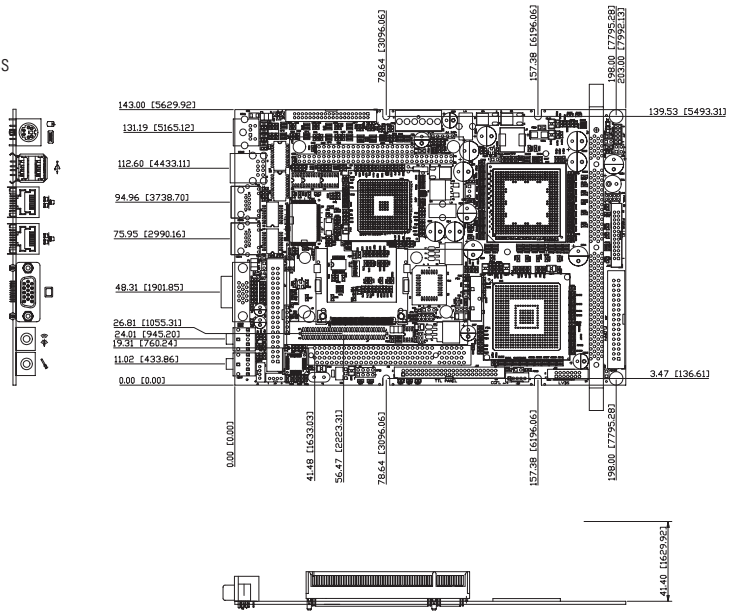
EBC 569

5.25" VIA Eden C3 embedded controller CPU board w/CPU/Video/LAN/Audio/LVDS/TTL



Features

- ◆ On-board Low power VIA Eden 667MHz or C3 VIA 800/1GHz process with 100/133MHz
- ◆ 168-pin DIMM x1, support SDRAM memory up to 512MB
- ◆ VIA Twister T8606/686B chipsets
- ◆ 4X AGP VGA, 2D/3D graphic, LVDS/TTL Panel interface
- ◆ Realtek 8139C+ 10/100 LAN x 2
- ◆ AC 97 ver. 2.0 Audio
- ◆ COM port x 4



Specifications

- ◆ System Architecture
- ◆ 5.25" size form factor
- ◆ PCI V2.2 compliant
- ◆ CPU support
- ◆ Support 667MHz up to 1Ghz with 100/133MHz FSB

- ◆ Support VIA C3/ Eden processor 667MHz up to 1GHz with 128KB/L1 and 64KB/L2 cache

Memory

- ◆ 168-pin DIMM x1, support SDRAM memory up to 512MB

BIOS



- ◆ Award system BIOS
- ◆ APM(Advanced Power Management) supported
- ◆ 4M bits flash ROM

Chipset

- ◆ VIA 8606 (Twister T) 100/133MHz North Bridge
- ◆ VIA VT82C686B PSIPC PCI SUPER-I/O integrated peripheral controller
- ◆ PCI V2.2 compliant

LAN

- ◆ Realtek RTL 8139C+ 10/100 Fast Ethernet LAN port with LED x 2
- ◆ Support Boot from LAN function

Audio

- ◆ VT82C686B and AC97 ver. 2.0 compliant interface, Multi-stream Direct Sound and DirectSound 3D acceleration
- ◆ Audio interface: CD-in / Line-in (Internal), Microphone-in, Speaker-out (with Amplifier)

Display

- ◆ VIA 8606 Integrated Savage4 2D/3D/Video Accelerator
- ◆ Optimized Shared Memory Architecture (SMA)
- ◆ 8/16/32MB frame buffer using system memory
- ◆ Full internal AGP 4X performance
- ◆ 2D/3D resolutions up to 1920x1440
- ◆ Extensive LCD Support:
 - ◆ a. 36-bit DSTN/TFT flat panel interface with 256 gray shade support
 - ◆ b. Integrated 110MHz LVDS interface(18-bit single)
 - ◆ c. Support for all resolutions up to 1600x1200
- ◆ 15Pin D-Sub VGA Output x1
- ◆ 18-bit LVDS Interface Connector x1
- ◆ 36-bit TTL LCD Interface Connector x 1
- ◆ Drivers support: Windows®95/98/2000, WindowsR NT4.0, Linux

I/O Interface

- ◆ Serial port x4 via 40-pin box header x1, with 4x16C550 uARTs, one for RS232/422/485
- ◆ USB port x 2
- ◆ HDD: 40-pin connector x 1; UltraDMA-33/66/100 IDE support
- ◆ Compact Flash socket x 1
- ◆ Parallel: 26 pin connector x 1, EPP/ECP support
- ◆ Floppy: 34-pin connector x 1
- ◆ PS/2 keyboard/mouse: 6-pin mini DIN connector x 1
- ◆ Digital I/O: 4-bit TTL input, 4-bit TTL output
- ◆ On-board buzzer x 1
- ◆ IrDA: 5-pin header
- ◆ 2C: 3-pin header
- ◆ COM 3 reserved the RING pin to power Touch Screen LCD (jumper select 5 or 12V or ring)
- ◆ Reset switch: 2-pin header
- ◆ Power switch: 4-pin header
- ◆ 3-pin power connector for CPU fan
- ◆ IDE active LED: 2-pin header

Real Time Clock

- ◆ On-chip RTC with battery back up
- ◆ External Li-Ion battery x 1

Watchdog Timer

- ◆ Watchdog timeout can be programmable by Software from 0.5 to 64 second

Expansion

- ◆ One PCI Slot
- ◆ PC 104
- ◆ One NEXCOM Proprietary PCI Interface

Dimension

- ◆ 203mm(L) x 146mm(W)

System Monitor

- ◆ Derived from Super I/O to support system monitor
- ◆ 5 voltage (For +3.3V, +5V, +12V, Vcore and +2.5V)
- ◆ Monitor CPU fan speed and temperature
- ◆ Drivers support: Windows®95/98/2000,
- ◆ Windows®NT4.0

Environments

- ◆ Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% (non-condensing)

Certification

- ◆ CE
- ◆ FCC Class A

Power Requirements

- ◆ Accessory power converter cable:
 - ◆ - AT Power Supply: Two 4P to 6P
 - ◆ - ATX Power Supply: 6P+ 2- pin power SW
- ◆ Power consumption: Running HCT 9.5 in Windows 2000 Server
 - ◆ A. Measure with 400MHz
 - ◆ a. +12V: 0.1A
 - ◆ b. +5V: 3A
 - ◆ B. Measure with 667MHz
 - ◆ a. +12V: 0.1A
 - ◆ b. +5V: 3.5A
 - ◆ C. Measure with 800MHz
 - ◆ a. +12V: 0.15A
 - ◆ b. +5V: 4.5A
 - ◆ D. Measure with 1GHz
 - ◆ a. +12V: 0.15A
 - ◆ b. +5V: 6A

Ordering Information

EBC 569

5.25" embedded board with on-board VIA C3 800MHz CPU

EBC 569-1

5.25" embedded board with on-board VIA C3 1GHz CPU

EBC 569LP6

5.25" Ultra low power/ Fanless embedded board with VIA Eden 667MHz on-board

1 Single Board Computers

2 Industrial ATX MB

3 Passive Backplanes

4 Compact PCI

5 Embedded CPU Boards

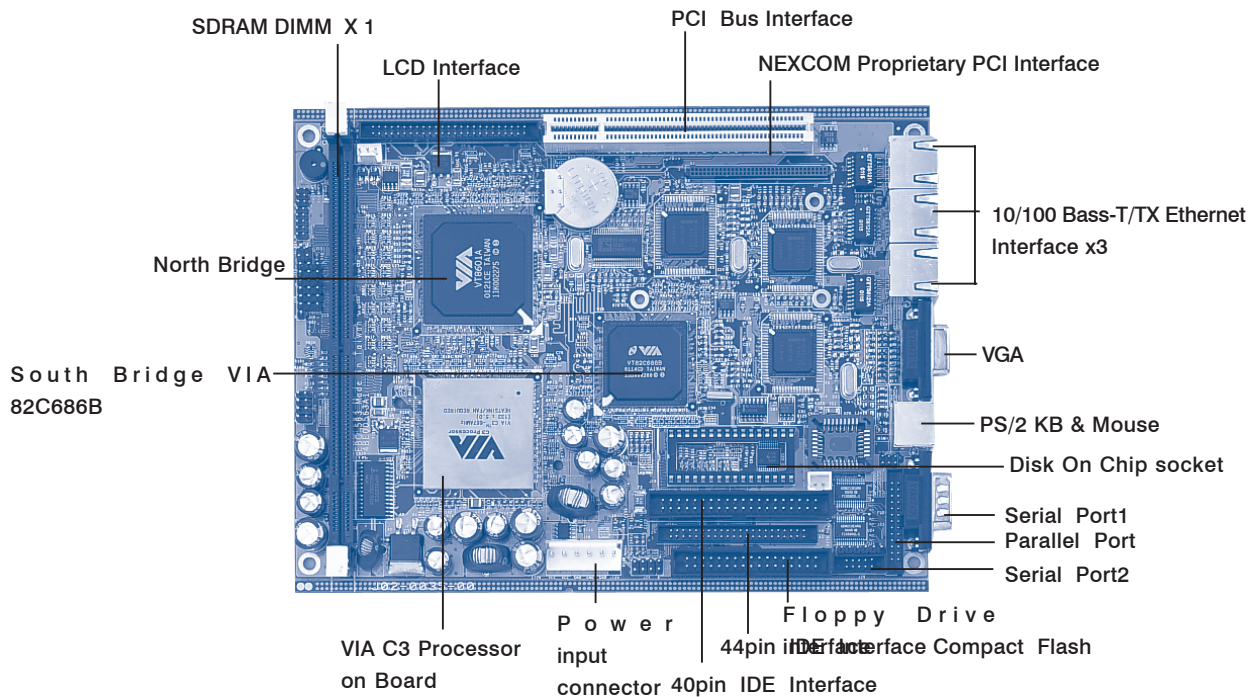
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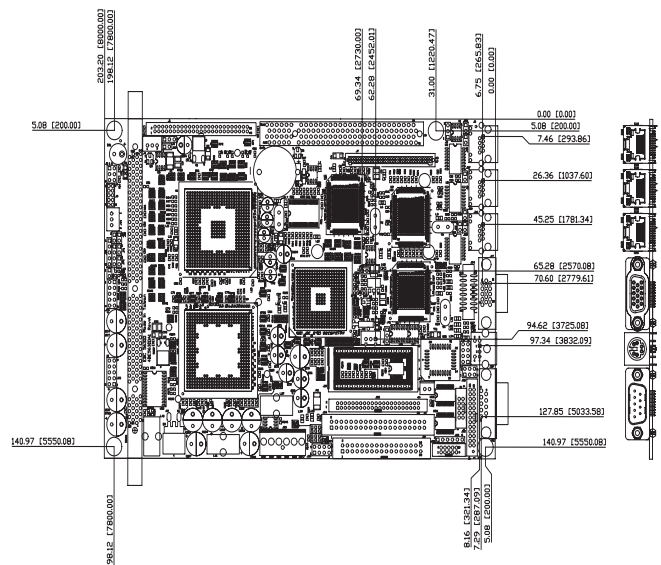
EBC 563

5.25" VIA Eden C3 embedded CPU board w/CPU/VGA/LAN/Audio



Features

- ◆ On-board VIA Eden 667MHz/ C3 800/ 1GHz processor with 100/133 MHz FSB
- ◆ 168-pin DIMM x 1, support SDRAM memory up to 512MB
- ◆ VIA 8601A/686B chipsets
- ◆ 4X AGP VGA, 2D/3D graphic, Optional DVI Panel Interface for LCD support
- ◆ 10/100 LAN x 3 (Intel®82559 or Realtek 8139C)
- ◆ AT/ATX power supply support, Optional Audio module



Specifications

System Architecture

- ◆ 5.25" drive form factor
- ◆ PCI V2.2 compliant

CPU support

- ◆ Support 667MHz ~ 1GHz with 100/133MHz FSB
- ◆ Supports VIA C3/Eden processor 667MHz up to 1GHz with 128K/L1 and 64K/L2 cache

Memory

- ◆ Max 512 MB SDRAM, 168-pin DIMM x 1

BIOS

- ◆ Award system BIOS
- ◆ APM(Advanced Power Management) supported
- ◆ 4M bits flash ROM

Chipset



- ◆ VIA 8601A 100/133MHz North Bridge
- ◆ VIA VT82C686B PSIPC PCI SUPER-I/O integrated peripheral controller
- ◆ PCI V2.2 compliant

LAN

- ◆ RealTek RTL8139C+ 10/100 Ethernet Controller x 3 or IntelR 82559 10/100 EthernetLAN port x 3
- ◆ 10/100 Base T/TX support, full duplex
- ◆ Support Boot from LAN function
- ◆ RJ45 with LED connector x 3

VGA

- ◆ VIA Apollo PLE133 Graphics Controller
- ◆ 64-bit Single Cycle 2D/3D Graphics Engine, Supports 2 to 8 Mbytes of Frame Buffer, Real Time DVD MPEG-2 and AC-3 playback, Integrated 24-bit 230MHz true color DAC extended screen resolutions up to 1600 x 1200
- ◆ Allows external TMDS transmitter (DVI) for advanced panel interfaces
- ◆ 15-pin D-Sub VGA Output
- ◆ 50-pin connectorx1 for (18+18) TTL TFT flat panel interface; support optional TMDS module for DVI interface (EBK Media 1)

I/O Interface

- ◆ SIO x 2, with 2x16C550 UARTs, 10-pin header x 1, D-Sub x 1
- ◆ PIO x 1, bi-directional, 26-pin connector EPP/ECP support
- ◆ Floppy Disk controller: 34-pin connector x 1
- ◆ Support UltraDMA-33/66/100 IDE: 40-pin connector x 1, 44-pin connector x 1
- ◆ Optional Compact Flash module support(EBK CF)
- ◆ Disk on chip socketx1, expansion from 2MB-288MB
- ◆ Support DOM: Disk On Module on the 44-pin IDE for option
- ◆ PS/2 keyboard/mouse : 6-pin mini DIN connector x 1
- ◆ USB port x 2
- ◆ Buzzer x 1
- ◆ Digital I/O: 4bit TTL input, 4bit TTL output
- ◆ I2C: 2-pin header x 1
- ◆ IrDA: 5-pin header x 1
- ◆ Reset SW: 2-pin header x1
- ◆ ATX power SW: 2-pin header x1
- ◆ Power cable connected to panel(5V or 3V): 3-pin header x1
- ◆ AC97 interface via optional audio module(EBKAC97)

Expansion

- ◆ One NEXCOM Proprietary PCI interface
- ◆ One PCI Slot

Dimensions

- ◆ 203mm(L) x 146mm(W)

Real Time Clock

- ◆ On-chip RTC with battery back up
- ◆ External Li-Ion battery x 1

Watchdog Timer

- ◆ Watchdog timeout can be programmable by Software from 0.5 second

System Monitor

- ◆ Two temperature
- ◆ Drivers support: Windows®98/2000, WindowsR NT4.0
- ◆ Derived from super I/O to support system monitor
- ◆ 5 voltage (For +3.3V, +5V, +12V, Vcore and Vtt)

- ◆ Two fan speed (For CPU and Chassis)

Environments

- ◆ Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% (Non-condensing)

Certification

- ◆ CE
- ◆ FCC Class A

Power Source & Power Requirements

- ◆ Accessory Power Converter Cable:
- ◆ - AT Power Supply: Two 4P to 6P
- ◆ - ATX Power Supply: 6P+ 2-pin power SW
- ◆ Power consumption:
- ◆ A. Measure with 1GHz
 - ◆ a. +12V: 0.6A
 - ◆ b. +5V: 4.8A
- ◆ B. Measure with 800MHz
 - ◆ a. +12V: 0.26A
 - ◆ b. +5V: 4.06A
- ◆ C. Measure with 667MHz
 - ◆ a. +12V: 0.08A
 - ◆ b. +5V: 3.26A

Ordering Information

EBC 563I

5.25" size with on-board VIA C3 800MHz CPU/ VGA AGP 4X/ Intel® 82559 LAN x 3

EBC 563I-1

5.25" embedded board with on-board VIA C3 1GHz CPU/VGA AGP 4X/Intel® 82559 LANsx3

EBC 563ILP

5.25" embedded board with on-board low power VIA Eden 667MHz CPU-fanless solution/ VGA AGP 4X/ Intel® 82559 LAN x 3

EBC 563ILP6

5.25" embedded board with on-board VIA C3 1GHz CPU/ VGA AGP 4X/ RTL8139C LAN x 3

EBC 563R

5.25" embedded board with on-board VIA C3 1GHz CPU/ VGA AGP 4X/ Intel®82559 LAN x 3

EBC 563R-1

5.25" embedded board with on-board VIA C3 1GHz CPU/VGA AGP 4X/ RTL8139C/C+ LANsx3

EBC 563RLP

5.25" size with on-board VIA C3 800MHz CPU/ VGA AGP 4X/ RTL8139C LAN x 3

EBC 563RLP6

5.25" embedded board with on-board low power VIA Eden 667MHz CPU-fanless solution/ VGA AGP 4X/ RTL8139C LAN x 3

1 Single Board Computers

2 Industrial ATX MB

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4 Compact PCI

5 Embedded CPU Boards

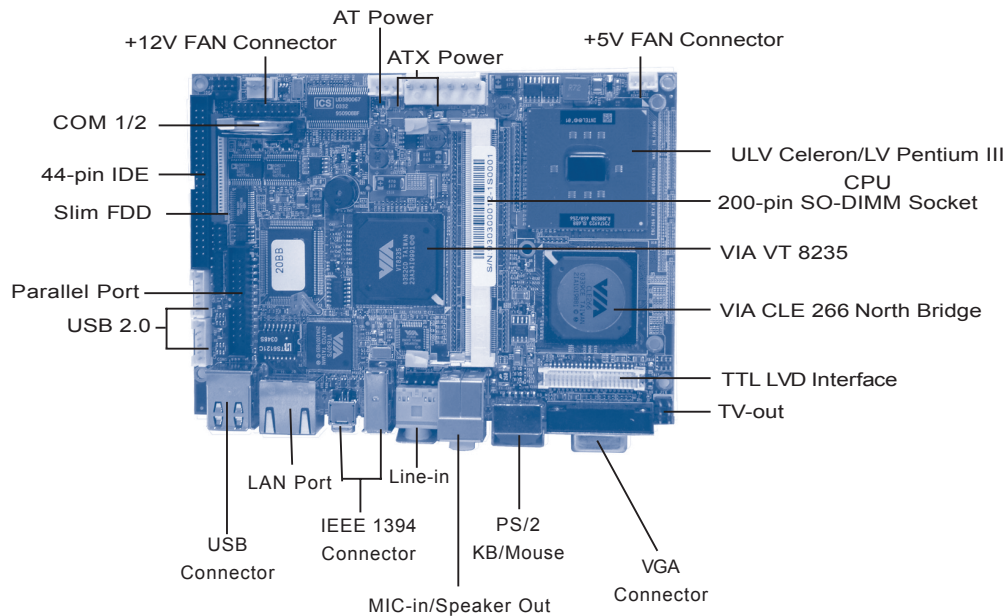
6 Embedded Systems

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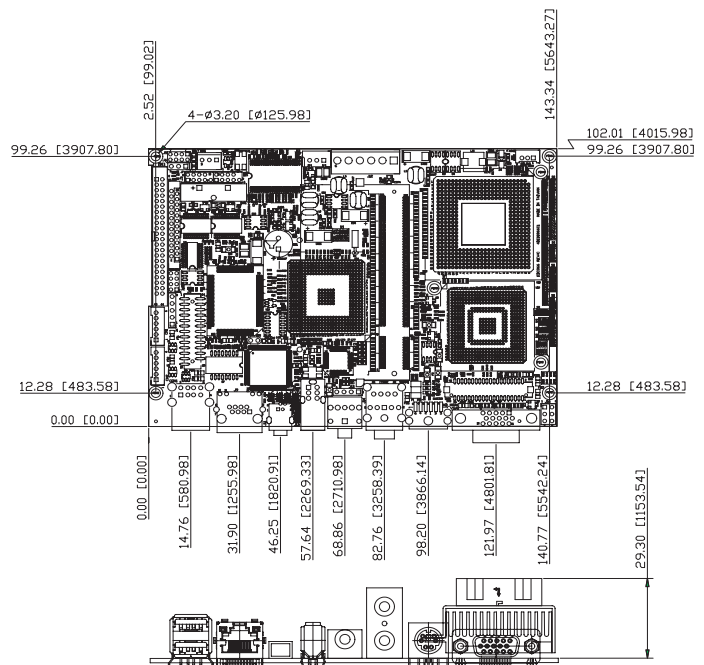
EBC 366

3.5" Ultra Low Voltage Intel® Celeron 400/650MHz embedded CPU board w/CPU/
VGA/LAN/Audio/TV-out/IEEE 1394



Features

- ◆ On board Ultra Low Voltage Intel®Celeron®400/650 MHz processor
- ◆ VIA CLE 266 chipsets
- ◆ 200-pin SO-DIMM x 1, support DDR 266/333 memory up to 1G
- ◆ VIA 6105 10/100 LAN x 1
- ◆ Audio with Speaker-Out , Line-in and MIC-in
- ◆ Compact Flash
- ◆ Support TV-out/Dual Independent display/IEEE 1394/ USB 2.0 x 6



Specifications

System Architecture

- ◆ 3.5" drive form factor

CPU support

- ◆ Supports Ultra Low Voltage Intel Celeron 400-650MHz processor with 256K L2 cache and 100MHz FSB

Memory

- ◆ 200-pin SO-DIMM x 1 support DDR 266/333 memory up to 1G

BIOS

- ◆ Award system BIOS
- ◆ ACPI Support (ATX Mode)
- ◆ APM(Advanced Power Management) support
- ◆ 4M bits flash ROM

Chipset

- ◆ VIA 8623(CLE 266) 100/133MHz
- ◆ VIA VT8235

LAN

- ◆ VIA VT6105 10/100 Fast Ethernet Controller x1
- ◆ Compliant with IEEE802.3X
- ◆ Support Boot from LAN function, Wake On LAN Functions
- ◆ RJ45 with LED connector x1

Audio

- ◆ AC97 ver. 2.0 compliant interface from VT8235, Sound AC-97 Audio Interface CODEC:VT 1616
- ◆ Audio interface: External Phone Jack:Microphone in, Speaker out, Line in

Display

- ◆ VIA 8623 Integrated Graphics UniChrome AGP 8x 2D/3D graphics engine
- ◆ 8/16/32/64 MB frame buffer using system memory
- ◆ 15-pin D-Sub VGA output
- ◆ TTL LCD Interface x 1, DF-13 40-pin
- ◆ Dual Independent Display(CRT+TTL or TTL+TV mode)
- ◆ TV out (Pin Header)

IEEE1394

- ◆ VIA Fire II VT6306
- ◆ IEEE 1394 port x2

I/O Interface

- ◆ Serial port x 2, 16C550 UARTs (10-pin headerx2)
- ◆ USB2.0 connector x 6 (two direct output , 4 from Jst Box Header)
- ◆ HDD: 44-pin connector x1, support UltraDMA 33/66/100
- ◆ Internal Compact Flash socketx1
- ◆ Parallel port: 26-pin connector x1, support EPP/ECP
- ◆ Slim Floppy: 26-pin connector x 1
- ◆ PS/2 keyboard / mouse: 6-pin mini DIN connectorx1
- ◆ On Board buzzer x 1
- ◆ On board 3 pin header for I2C, one pin for GND
- ◆ On Board 2 pin header for Reset switch
- ◆ On Board 2 pin Power LED Header
- ◆ 2 Pin IDE Active LED Header

Dimensions

- ◆ 143mm(L) x 102mm(W)

Real Time Clock

- ◆ On chip RTC with battery back up
- ◆ External Li-Ion battery x1

Watchdog Timer

- ◆ Watchdog timeout can be programmable by Software
- ◆ System Monitor
- ◆ Derived from Super I/O (VT1211) to support system monitor
- ◆ Drivers support : Windows®98/2000, Windows NT4.0
- ◆ 5 voltage (For +3.3V, +5V, 2.5V, Vcore)
- ◆ Fan speed for CPU
- ◆ Two Temperature (CPU and System)

Environments

- ◆ Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% (Non-condensing)

Certification

- ◆ CE
- ◆ FCC

Power Requirements

- ◆ AT Mode : Power Cable : Two Big 4P to 6P
- ◆ ATX Mode :
- ◆ Power Cable - ATX Power Connector to 6P (5V,GND) + 3pin(+5Vsb, PS_ON, GND)
- ◆ On Board 3 pin Jst connector to receive the 5Vsb, PS_ON, GND
- ◆ 2-pin Pin Header for Power Switch Button
- ◆ Power consumption:
- ◆ A. Measure with Ultra Low Voltage Intel Celeron 650MHz
- ◆ a. +12V: 0.5A
- ◆ b. +5V: 4.65A
- ◆ B. Measure with Ultra Low Voltage Intel Celeron 400MHz
- ◆ a. +12V: 0.5A
- ◆ b. +5V: 4.5A

Ordering Information

EBC 366LV6

3.5" Ultra Low Voltage Embedded Board with on board Intel Mobile ULV 650MHz processor

Accessory Options :

USB Cable:

USB Cable with usb port x 2 , L: 200mm P/N. 60233USB07

1 Single Board Computers

2 Industrial ATX MB

3 Passive Backplanes

4 Compact PCI

5 Embedded CPU Boards

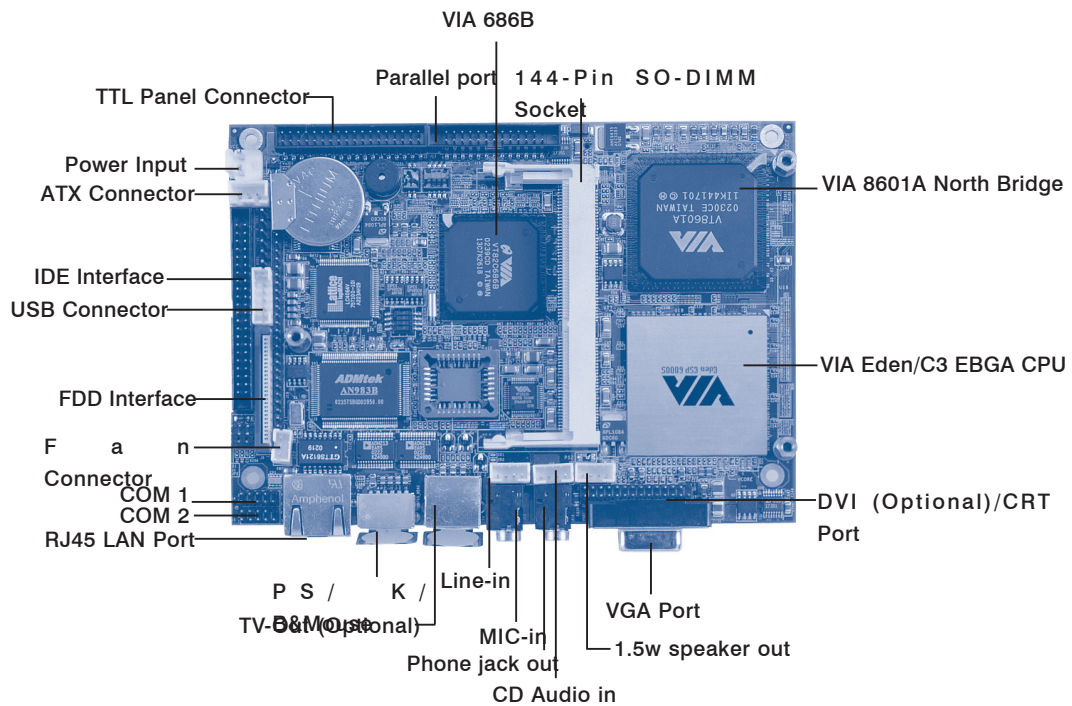
6 Embedded Systems

7 Network Security Appliances

8 Blade Servers

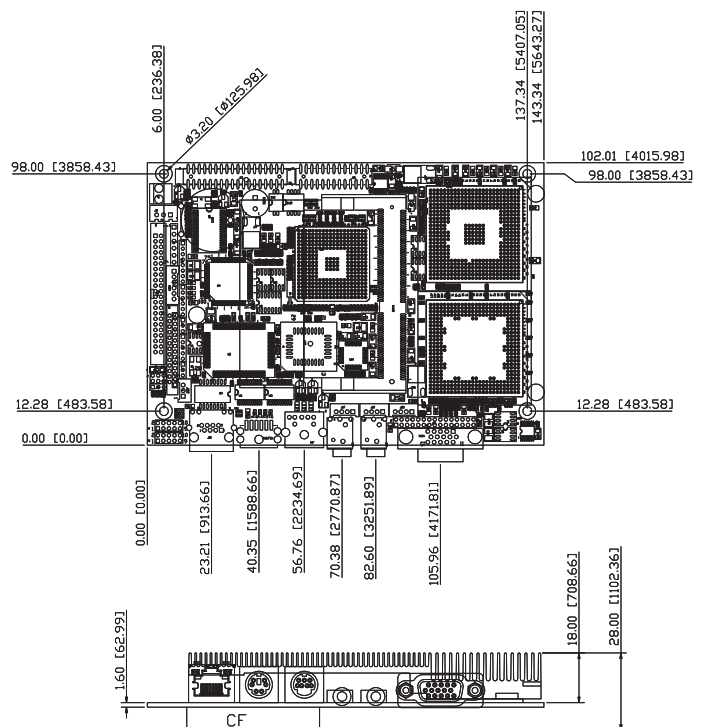
EBC 365

3.5" VIA Eden /C3 embedded CPU board w/CPU/VGA/LAN/Audio/Mini-PCI/CF



Features

- ◆ On board VIA Eden 667MHz up to C3 800MHz processor with 100/133 MHz FSB
- ◆ 144-pin SO-DIMM x 1, Support SDRAM up to 512MB
- ◆ VIA 8601A/686B chipsets
- ◆ 2D/3D graphic, TMDS(DVI optional)/ TTL LCD(24-bit) interface
- ◆ ADMTek 983B 10/100 LAN x 1
- ◆ AC 97 ver. 2.2 Audio
- ◆ Support TV-out function



Specifications

System Architecture

- ◆ 3.5" drive form factor

CPU support

- ◆ Support 667MHz ~ 800MHz CPU with 100/133MHz FSB
- ◆ Supports VIA C3/Eden processor 667MHz up to 800MHz with 128KB/L1

and 64KB/L2 cache

Memory

- ◆ 144-pin SO-DIMM x1, Max. 512MB SDRAM memory

BIOS

- ◆ Award system BIOS
- ◆ APM(Advanced Power Management) support
- ◆ ACPI(Advanced Configuration & Power Interface) support
- ◆ 4M bits flash ROM

Chipset

- ◆ VIA 8601A 100/133MHz North Bridge
- ◆ VIA VT82C686B PCI SUPER-I/O integrate peripheral controller
- ◆ PCI V2.2 compliant

LAN

- ◆ ADMtek AN983B 10/100 Fast Ethernet LAN portx1
- ◆ Compliant with IEEE802.3X
- ◆ Support Boot from LAN function
- ◆ Support Wake-up from LAN
- ◆ RJ45 with LED connector x1

Audio

- ◆ VT82C686B and AC97 ver. 2.0 compliant interface, Multi-stream Direct Sound and Direct Sound 3D acceleration

Display

- ◆ VIA Apollo PLE133 graphics controller
- ◆ 64-bit single cycle 2D/3D graphics engine, support 2- to 8-MB of frame buffer, Real Time DVD MPGE-2 and AC-3 Playback, integrated 24-bit 230MHz true color DAC extended screen resolutions up to 1600x1200
- ◆ Extensive LCD support: 18- or 24-bit TFT flat panel interface, resolutions 640x480/800x600/1024x768 ; DVI(TMDS) interface (Optional), resolutions up to 1024x768
- ◆ 15-pin D-sub VGA output
- ◆ TTL LCD pannel interface: 36-pin connector
- ◆ Optional 28-pin DVI connector x1
- ◆ Optional TV-out connectorx1

I/O Interface

- ◆ Serial port x 2, with 16C550 UARTs, (9-pin header x2)
- ◆ USB portx2
- ◆ HDD: 44-pin connector x1, Ultra DMA 33/66/100 support
- ◆ Internal Compact Flash socket x1
- ◆ Parallel port: 26-pin connector x 1, support EPP/ECP
- ◆ Slim FDD: 26-pin connector x1
- ◆ PS/2 keyboard/Mouse: 6-pin mini DIN connector x 1
- ◆ Audio Interface:
 - ◆ - Internal: CD-in, Line-in, Speaker-out
 - ◆ - Phone Jack: Microphone-in, Speaker-out
- ◆ Digital I/O TTL level (2-in/out)
- ◆ Buzzerx1
- ◆ I2C: on-board 3-pin header x1(one pin for GND)
- ◆ Reset Switch: 2-pin header x1
- ◆ IDE active LED: 2-pin header x1
- ◆ 2-pin power LED header x1
- ◆ ATX power Switch: 2-pin header x1
- ◆ Power cable connected to panel(5V or 3V): 3-pin power header x1

Expansion:

- ◆ Mini-PCI interface: industry-standard Mini-PCI card type III

Real Time Clock

- ◆ On-chip RTC back-up battery x1
- ◆ External Lithium battery x1

Watchdog Timer

- ◆ Watchdog timeout programmable from 1 to 127 second/minute

System Monitor

- ◆ Super I/O support system monitor
- ◆ 4 voltage (For +3.3V, +5V, VTT, Vcore)
- ◆ Monitor CPU fan speed, CPU temperature
- ◆ Drivers support: Windows®95/98/2000, Windows NT4.0

Dimensions

- ◆ 143mm(L)x102mm(W)

Environments

- ◆ Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% (Non-condensing)

Certification

- ◆ CE
- ◆ FCC

Power Requirements

- ◆ Reserve 3-pin header for +5Vsb to support ACPI function
- ◆ 3.3V is converted from +5V
- ◆ Accessory power converter cable:
 - ◆ - AT power supply: Two 4P to 6P
 - ◆ - ATX power supply: 2-pin+ 3-pin connector
- ◆ Power consumption(ATX power) running HCT9.5 in windows 2000 server
- ◆ A. Measure with 800MHz
 - ◆ a. +5V: 4.15A
 - ◆ b. 5vsb: 0.1A
- ◆ B. Measure with 667MHz
 - ◆ a. +5V: 3A
 - ◆ b. 5vsb: 0.3A

Ordering Information

EBC 365

3.5" embedded board with on-board VIA C3 800MHz CPU/ VGA AGP4X/ ADMtek AN983B LAN

EBC 365A

3.5" embedded board with on-board VIA Eden 800MHz CPU-fanless solution/ VGA AGP4X/ ADMtek AN983B LAN/ TV output/DVI function

EBC 365A-LP6

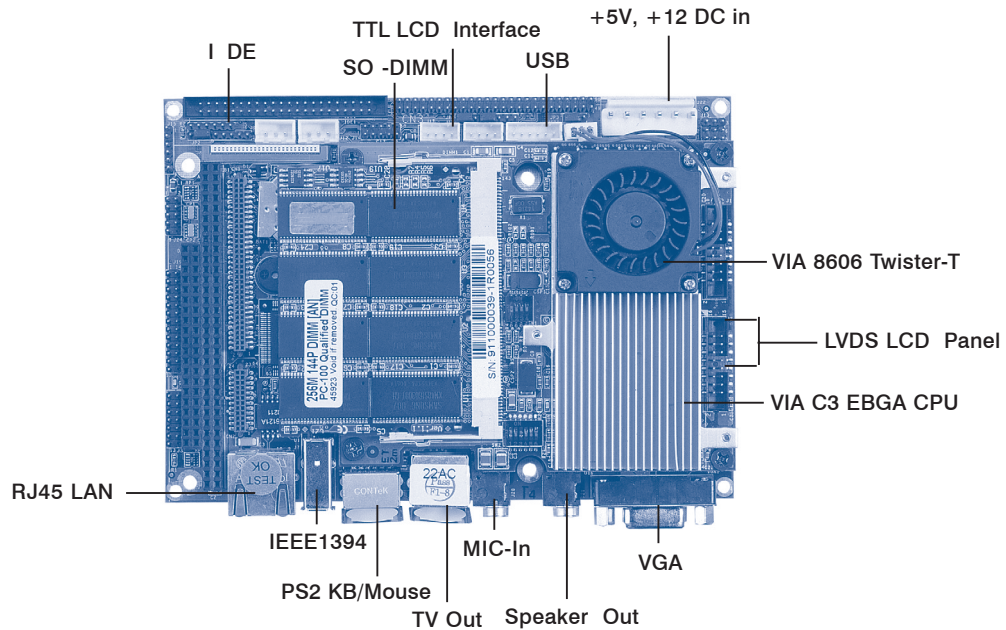
3.5" embedded board with on-board VIA Eden 667MHz CPU-fanless solution/ VGA AGP4X/ ADMtek AN983B LAN/ TV output/DVI function

EBC 365-LP6

3.5" embedded board with on-board VIA Eden 667MHz CPU-fanless solution/ VGA AGP4X/ ADMtek AN983B LAN

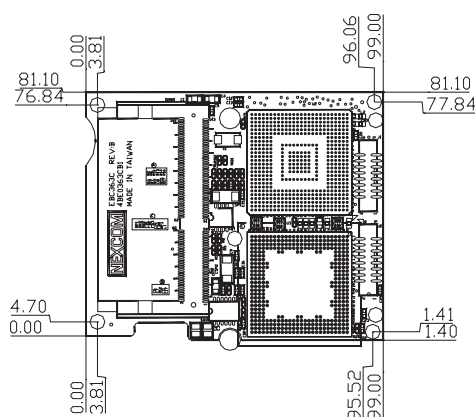
EBC 363

3.5" VIA C3 embedded CPU board w/CPU/Video/LAN/Audio/IEEE 1394

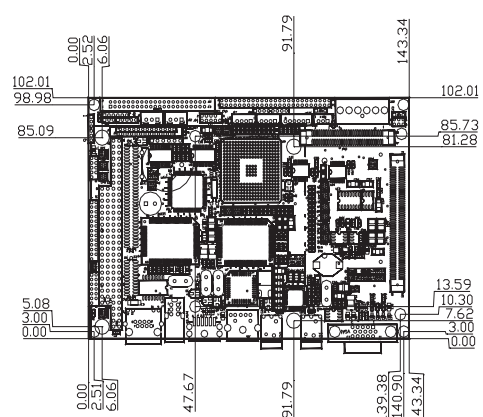


Features

- ◆ On-board VIA C3 800MHz/1GHz with 100/133MHz FSB
- ◆ 144-pin DIMM x 1, support SDRAM up to 512MB
- ◆ VIA 8606/686B chipsets
- ◆ 3D graphic, LVDS (18bit x 2) / TTL LCD (24bit x 1) interface, 4 x AGP
- ◆ Realtek 8139C+ 10/100 LAN x 1
- ◆ AC 97 ver. 2.0 Audio
- ◆ Support TV-out/IEEE 1394/USB port



EBC 363(CPU Board)



EBC 363(I/O Board)

Specifications

System Architecture

- ◆ 3.5" drive form factor

CPU support

- ◆ Support 800MHz ~ 1GHz CPU with 100/133MHz FSB
- ◆ Supports VIA C3 processor 800MHz-1GHz with 128KB/L1 and 64KB/L2 cache



Memory

- ◆ One 144-pin SO-DIMM, support Max. 512MB SDRAM

BIOS

- ◆ Award system BIOS
- ◆ ACPI Support
- ◆ APM(Advanced Power management Support) support
- ◆ 4M bits flash ROM

Chipset

- ◆ VIA 8606 (Twister T) 100/133MHz (North Bridge)
- ◆ VIA VT82C686B PCI SUPER-I/O integrated peripheral controller

LAN

- ◆ Compliant with IEEE802.3X
- ◆ Support Boot from LAN function
- ◆ RJ45 with LED connector x1
- ◆ RealTek RTL8139C+ 10/100 Fast Ethernet LAN port x1
- ◆ Support 10/100 Base TX, full duplex

Audio

- ◆ VT82C686B and AC97 ver. 2.0 compliant interface, Multi-stream Direct Sound and Direct Sound 3D acceleration
- ◆ Audio interface: CD-in, Line-in (Internal connector), Microphone-in, Speaker-out (with Amplifier)

VGA

- ◆ VIA 8606 Integrated Savage4 2D/3D/Video Accelerator
- ◆ Optimized Shared Memory Architecture (SMA)
- ◆ 8/16/32MB frame buffer using system memory
- ◆ Full internal AGP 4X performance
- ◆ 2D/3D resolutions up to 1920x1440
- ◆ Extensive LCD Support:
 - ◆ a. 36-bit DSTN/TFT flat panel interface with 256 gray shade support
 - ◆ b. Integrated 110MHz LVDS interface(18-bit x2)
 - ◆ c. Support for all resolutions up to 1600x1200
- ◆ 15-pin D-Sub VGA Outputx1
- ◆ 18-bit LVDS interface connector x2
- ◆ 36-bit TTL LCD interface connector x1

TV Encoder Interface

- ◆ VT1621 TV encode
- ◆ RCA TV-out or S-Video output
- ◆ Supports NTSC, NTSC-EIA (Japan) and PAL TV formats

IEEE1394

- ◆ VIA FireII VT6306
- ◆ IEEE 1394 port x3(one with connector and two with reserved pin-headers)

IDE Interface

- ◆ VIA 686B South Bridge Integrated UltraDMA 33/66/100 master mode EIDE controller
- ◆ Support UltraDMA 33/66/100 IDE: 44-pin connector x1(primary)
- ◆ Internal compact flash socket x1 (secondary)

Expansion

- ◆ NEXCOM PCI Proprietary Connector for EBK Module to support PCI devices
- ◆ PC 104 connector: One 104-pin of 16-bit connector onboard

I/O Interface

- ◆ SIOx2(with 4x16C550 uarts), 10-pin header (2.0mm) x2(one for RS422/

485)

- ◆ PIO x1, bi-directional, 26-pin EPP/ECP support connector
- ◆ PS/2 keyboard/mouse: 6-pin mini DIN connector x1
- ◆ USB port x2
- ◆ Buzzer x1
- ◆ Digital I/O: 4bit TTL input, 4bit TTL output
- ◆ I2C: 3-pin header(one pin for GND)
- ◆ IrDA: 5-pin header x1
- ◆ Reset Switch: 2-pin header x1
- ◆ ATX power Switch: 2-pin header x1
- ◆ 2-pin power LED header
- ◆ 3-pin power connectorx2 for CPU fan and system fan
- ◆ 2-pin IDE Active LED header

Dimensions

- ◆ 143mm(L) x 102mm(W)

Real Time Clock

- ◆ On chip RTC with battery back up
- ◆ External Li-Ion battery x1

Watchdog Timer

- ◆ Watchdog timeout can be programmable by Software from 1 to 127 second/minute

System Monitor

- ◆ Derived from super I/O to support system monitor
- ◆ 5 voltage (For +3.3V, +5V, +5Vsb, +12V, Vcore and Vtt)
- ◆ Two temperatures
- ◆ Drivers support: Windows®98/2000, WindowsR NT4.0

Environments

- ◆ Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% (Non-condensing)

Certification

- ◆ CE
- ◆ FCC

Power Requirements

- ◆ Reserve 2-pin header for +5Vsb to support ACPI function
- ◆ 3.3V is converted from +5V
- ◆ Accessory power converter Cable:
- ◆ Two 4P to 6P (For AT Power Supply)
- ◆ ATX Power Connector to 6P+ 2 Pin Power SW(For ATX Power Supply) + 3pin(+5Vsb, PSON, GND)
- ◆ Power Consumption: measure with CPU Type: VIA C3 1GMHz (133X7.5)
 - ◆ a. +12V: 1.2A
 - ◆ b. +5V: 2.85A
 - ◆ c. 5vsb: 0.25A

Ordering Information

EBC 363

3.5" embedded board with on-board VIA C3 800MHz CPU/ VGA AGP4X/ IEEE 1394/ Realtek RTL8139C+ LAN

EBC 363-1

3.5" embedded board with on-board VIA C3 1GHz CPU/ VGA AGP4X/ IEEE 1394/ Realtek RTL8139C+ LAN

1 Single Board Computers

2 Industrial ATX MB

3 Passive Backplanes

4 Compact PCI

5 Embedded CPU Boards

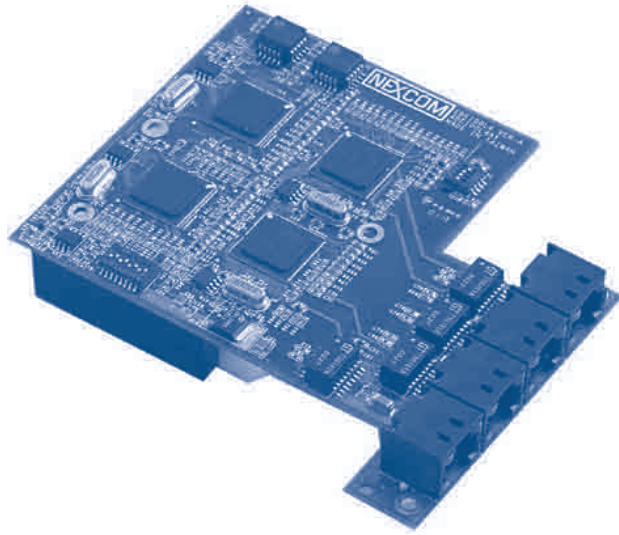
6 Embedded Systems

7 Network Security Appliances

8 Blade Servers

EBK 100L4

PCI Expansion Kit w/ 4 Channels LAN



Features

- ◆ LAN module for NEXCOM proprietary PCI interface
- ◆ Intel® 82559 (PRO/100 Network Connection) Ethernet controller x4
- ◆ 10 Base T/100 Base TX support, full duplex
- ◆ Compliant with PCI V2.1, IEEE802.3, IEEE 802.3U
- ◆ Backward compatible with former 82558 Ethernet controller base net modules
- ◆ Drivers support: DOS, Linux, Windows®95/98/2000, Windows®NT, Netware, SCO Open Server 5.0
- ◆ RJ45 connector x4 with LED
- ◆ Special Mechanical design for PEAK 602VL, PEAK 603VL and future model
- ◆ Dimension: 120mm(L) x 110mm(W)

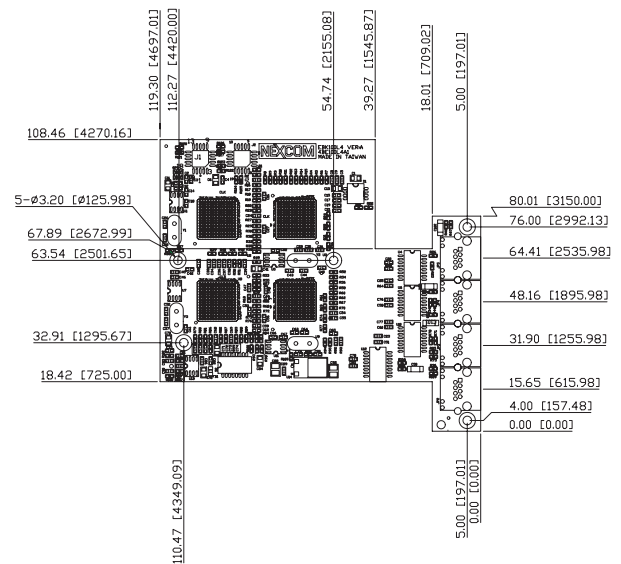
Ordering Information

EBK 100L2

PCI Expansion Kit w/2 Channels LAN IntelR 82559 Ethernet Controller x2

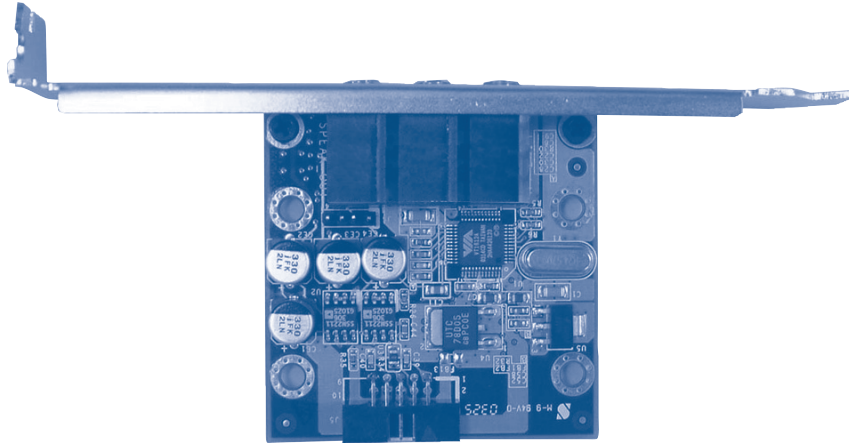
EBK 100L4

PCI Expansion Kit w/4 Channels LAN IntelR 82559 Ethernet Controller x4



EBK AC 97

AC 97 Audio interface Module for AC97 interface available models



- 1 Single Board Computers
- 2 Industrial ATX MB
- 3 Passive Backplanes
- 4 Compact PCI
- 5 Embedded CPU Boards
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Specifications

System Architecture

- ◆ Audio Codec: VT1612A
- ◆ AUDIO POWER AMPLIFIER 1.5W SSM2211S

I/O Interface

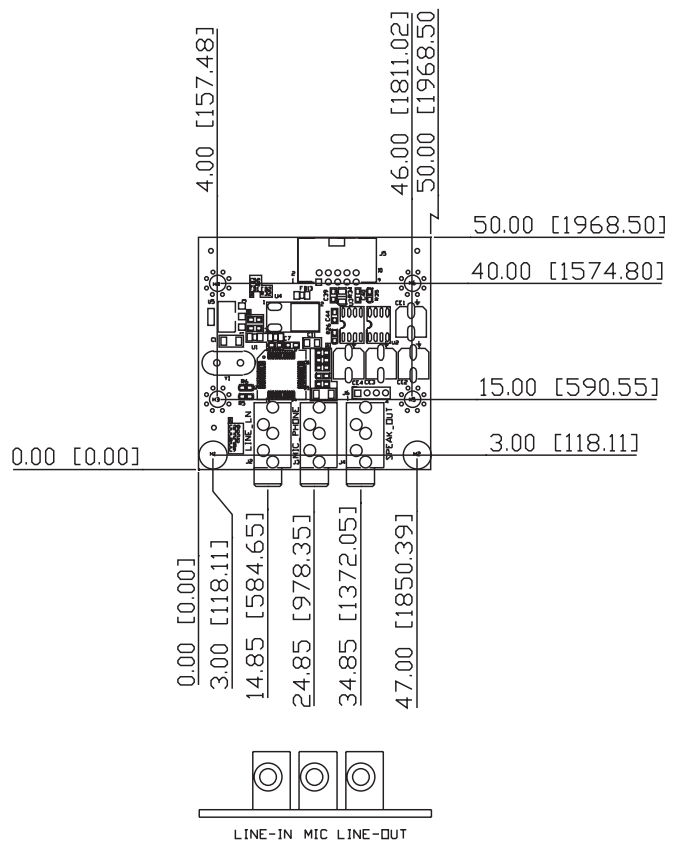
- ◆ PHONE JACK 3.5mm STEREO for Line-in x1, Mic-in x1, Speaker-out x1
- ◆ BOX HEADER 2x5 2.0mm for AC97 interface connection
- ◆ BRACKET FOR EBK-AC97 (AUDIO x3)

Available models

- ◆ Peak series: Peak7220, Peak735, Peak712, Peak639, Peak603P, Peak630VL
- ◆ EBC series: EBC563, EBC572, EBC575

Board Dimensions

- ◆ 50mm x 50mm



Ordering Information

EBK AC97

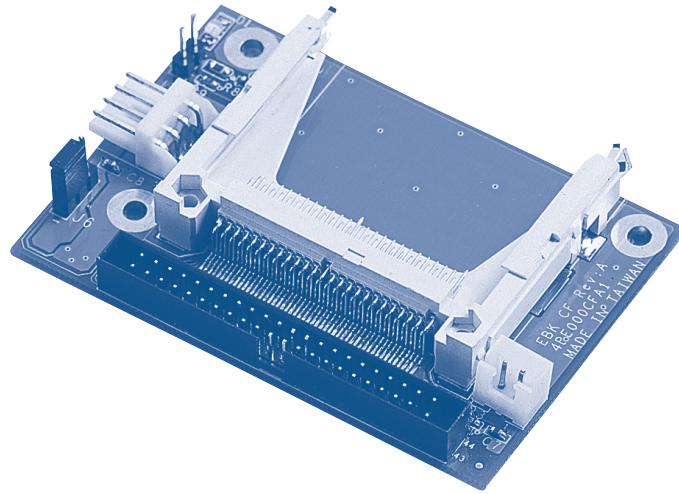
AC97 Audio interface module for Peak/EBC models with available audio interface

EBK AC97-P

AC97 Audio interface module for Peak/EBC models with available audio interface (For PEAK 715VL-HT series only)

EBK CF

Compact Flash module for EBC and PEAK board



Specifications

System Architecture

- ◆ Compact Flash Socket x1
- ◆ 44 pin IDE connector x1
- ◆ 2-pin Power Header x1
- ◆ 4-pin JST power connector x1

Dimensions

- ◆ 83 mm x 55 mm

Temperature

- ◆ 0°C ~ 60°C operation

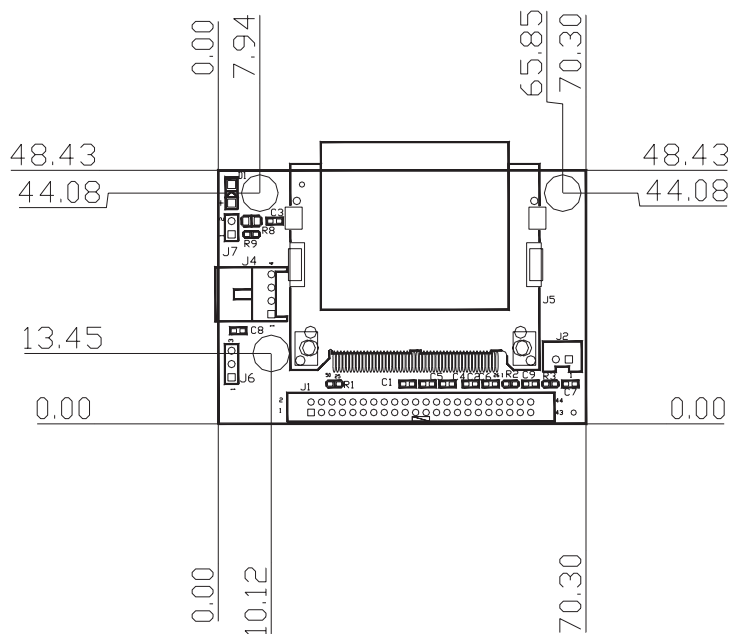
Ordering Information

EBK CF

Compact Flash module for EBC 563 adn PEAK board

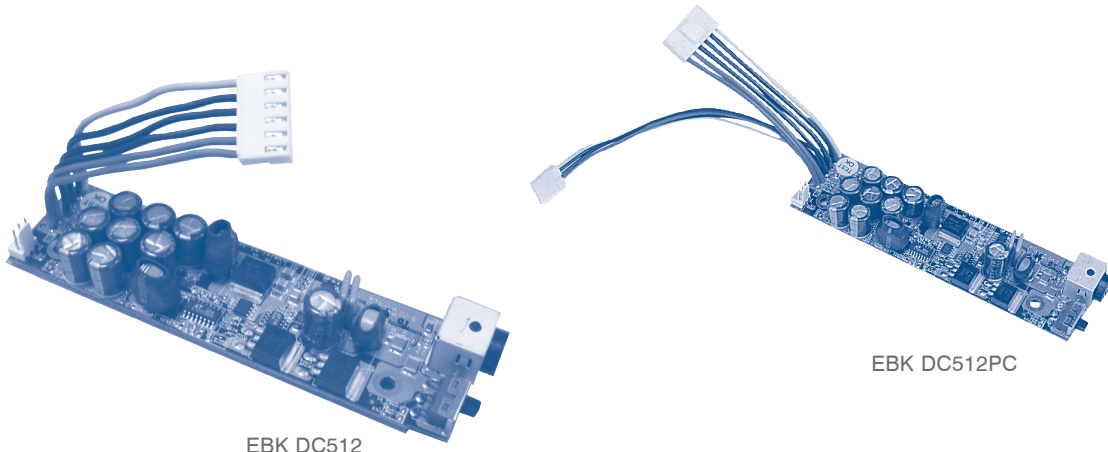
EBK CF-P

Compact Flash module for Peak 603VL



EBK DC 512

Power Module to support input power range of 16Vdc ~ 24Vdc



EBK DC512

EBK DC512PC

Specifications

System Architecture

- ◆ Input power range: 16Vdc ~ 24Vdc
- ◆ Output power source: 12V; +5V
- ◆ 3-pin CPU Fan Connectors x 1
- ◆ +12V and +5V power Line (150mm)

Available Models

- ◆ EBS series: EBS1563 series, EBS1569CF series, EBS1363, EBS1565P for EBKDC512

Dimensions

- ◆ 37 (W) x 140 (L) mm
- ◆ 46"(W) x 5.51"(L)

Environments

- ◆ Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% (Non-condensing)

Certification

- ◆ CE approval
- ◆ FCC Class A

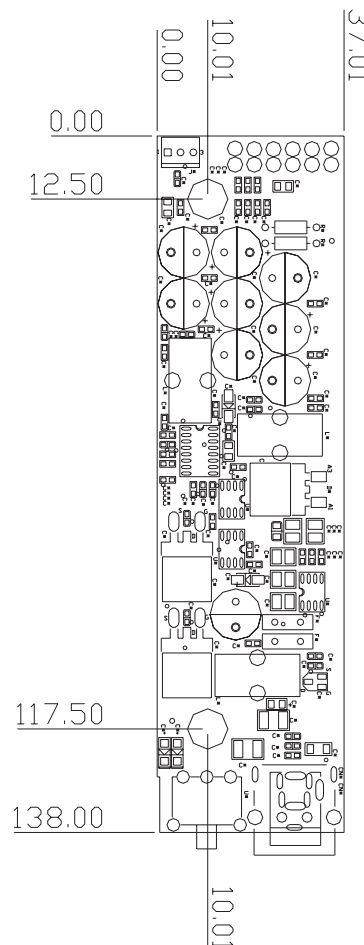
Ordering Information

EBK DC512PC

Power module with extra 4 pin power output for slim CD-ROM

EBK DC512

Power module to support Input Power From 16Vdc~24Vdc for NEXCOM Embedded System Products



1 Single Board Computers

2 Industrial ATX MB

3 Passive Backplanes

4 Compact PCI

5 Embedded CPU Boards

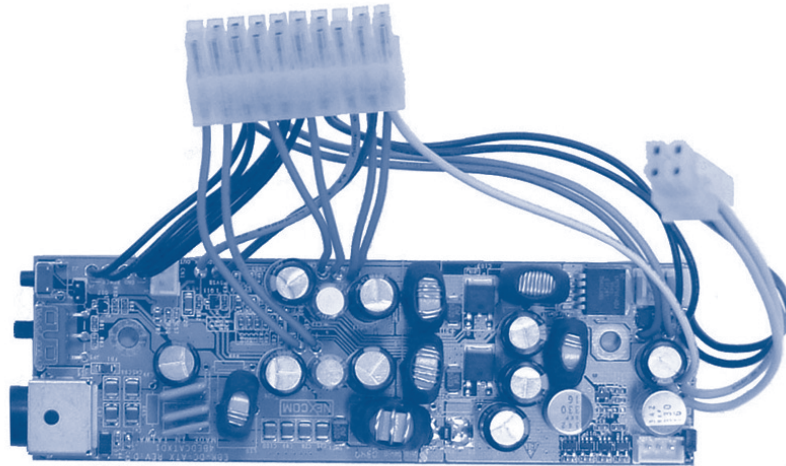
6 Embedded Systems

7 Network Security Appliances

8 Blade Servers

EBK DX24

Power module to support input power range of 14Vdc~24Vdc



Specifications

System Architecture

- ◆ Input power range: 14Vdc~24Vdc (+/-10%)
- ◆ Output Power source: +5V;+12V; -12V;+3.3V ; +5VSB ; Power GND ; PS ON# ; POWER OK (with EBC572 series only in AT mode)
- ◆ Power Wire : ATX Connector + 4 pin Aux Connector
- ◆ Connector : 4-pin (Din pin plug)

Available Models

- ◆ EBS: EBS1575P, EBS1575H
- ◆ DX247 for EBS1572P (AT mode only)
- ◆ DX246 for EBS1566P

Dimensions

- ◆ 145mm x 44.5mm
- ◆ 5.71" x 1.75"

Environments

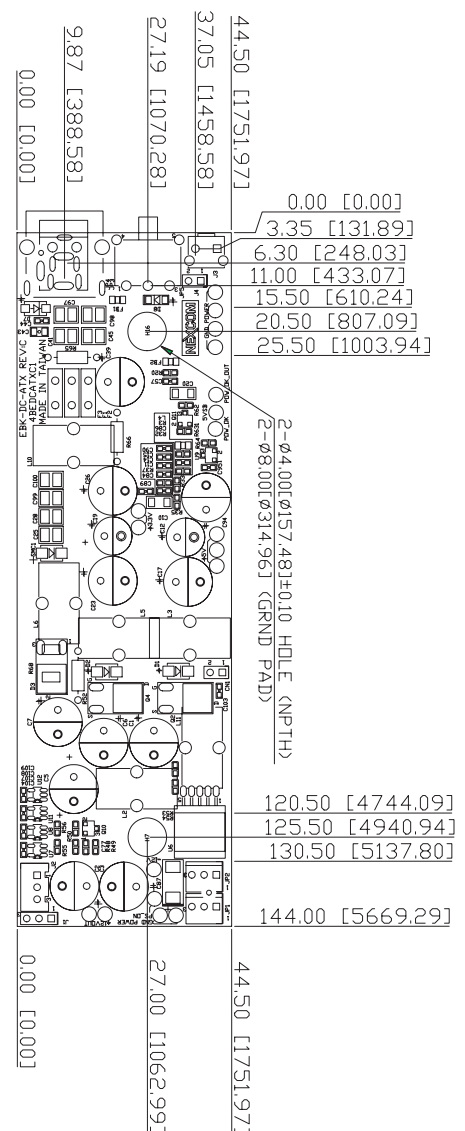
- ◆ Operating temperatures : 0°C to 60°C
- ◆ Storage temperatures : -20°C to 80°C
- ◆ Relative humidity : 0% to 90% (Non-condensing)

Certification

- ◆ CE
- ◆ FCC

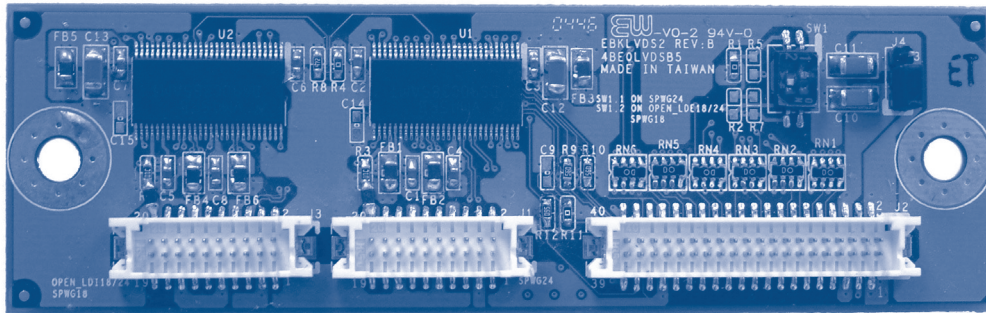
Ordering Information

- ◆ EBK DX24
- ◆ Power module to support Input Power range of 14Vdc~24Vdc



EBK LVDS 2

TTL to LVDS LCD Transmitter Module for 18/24-bit LVDS panel applications



- 1 Single Board Computers
- 2 Industrial ATX MB
- 3 Passive Backplanes
- 4 Compact PCI
- 5 Embedded CPU Boards
- 6 Embedded Systems
- 7 Network Security Appliances
- 8 Blade Servers

Specifications

System Architecture

- ◆ NS DS90C385A LVDS Transmitter, 24-bit Flat Panel Display Link-85 MHz
- ◆ 25 to 85 MHz Input Clock Support
- ◆ Complies with SPWG and Open LDI signal specification for 18/24bit single pixel panel
- ◆ Compatible with TIA/EIA-644
- ◆ Support Max. Panel Resolution (1280 x 1024)

Input Signal

- ◆ 24bit TTL LCD signals
- ◆ Connector Type : DF13-40DP

Output Signal

- ◆ Support 18/24-bit single pixel LVDS Panel (J1: 24bit SPWG panel; J3: 18bit SPWG & 18/24bit Open LDI)
- ◆ Connector Type: DF13-20DP

Available Models

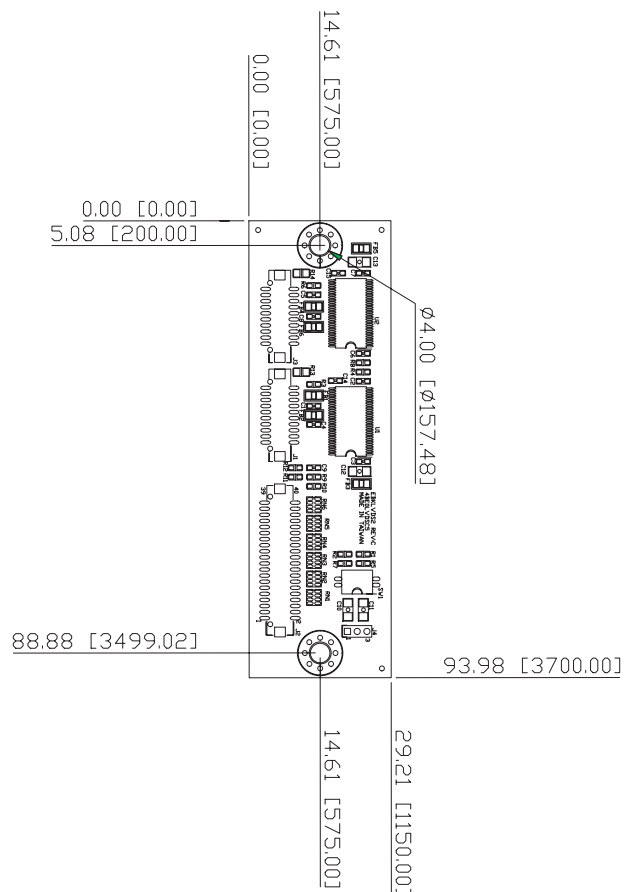
- ◆ . EBC series: EBC366, EBC566, EBC565

Dimensions

- ◆ 94 mm x 29.5 mm

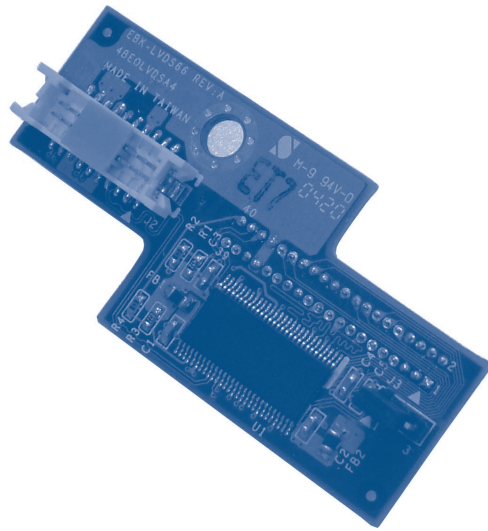
Environment

- ◆ Operating temperatures : 0°C to 60°C
- ◆ Storage temperatures : -20°C to 80°C
- ◆ Relative humidity : 0% to 90% (Non-condensing)



EBK LVDS 66

TTL to LVDS LCD Transmitter Module for 24bit LVDS panel applications



Specifications

System Architecture

- ◆ NS DS90C385A LVDS Transmitter, 24bit single pixel Flat Panel Display Link-85 MHz
- ◆ 25 to 85 MHz Input Clock Support
- ◆ Complies with Open LDI Specification for Digital Display Interfaces
- ◆ Compatible with TIA/EIA-644
- ◆ Support Max. Panel Resolution (1280 x 1024)

Input Signal

- ◆ EBC 566 24bit TTL LCD signals
- ◆ Connector Type : DF13 FEMALE CONNECTOR

Output Signal

- ◆ Support 24bit single pixel LVDS Panel (SPWG only)
- ◆ Connector Type: DF13-20DP

Available Models

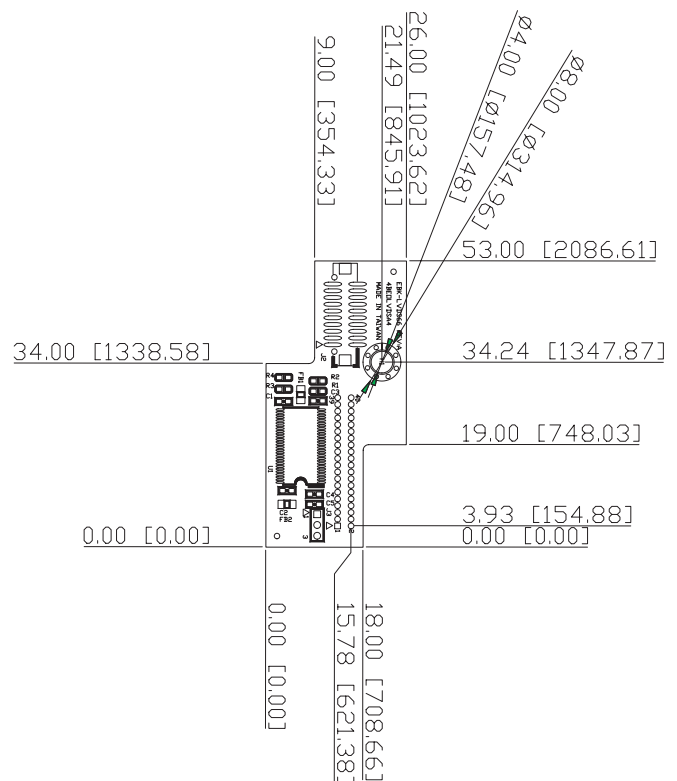
- ◆ EBC: EBC566
- ◆ Power Selection
- ◆ 3 Pin Headers for PANEL_VDD Power Selection. (+5V or +3.3V)

Dimensions

- ◆ 53 mm x 26.00 mm

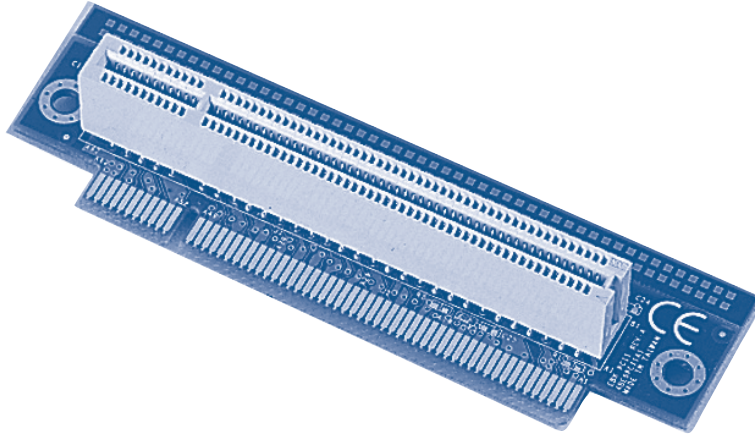
Environment

- ◆ Operating temperatures : 0°C to 60°C
- ◆ Storage temperatures : -20°C to 80°C
- ◆ Relative humidity : 0% to 90% (Non-condensing)



EBK PCI1

PCI Expansion kit w/ Single 32bit/33MHz interface for NEXCOM embedded boards



Specifications

System Architecture

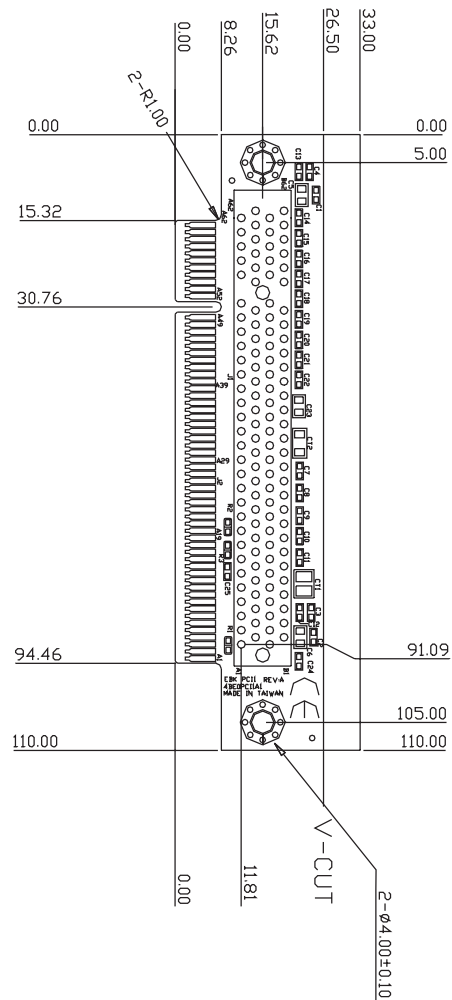
- ◆ 32bit, 33MHz PCI riser card for NEXCOM Embedded Boards
- ◆ One PCI slot expands to one slot of PCI

Dimensions

- ◆ 110 (L) x 24 (W) mm

Environments

- ◆ Operating temperatures: 0°C to 60°C/
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% (Non-condensing)



1 Single Board Computers

2 Industrial ATX MB

3 Passive Backplanes

4 Compact PCI

5 Embedded CPU Boards

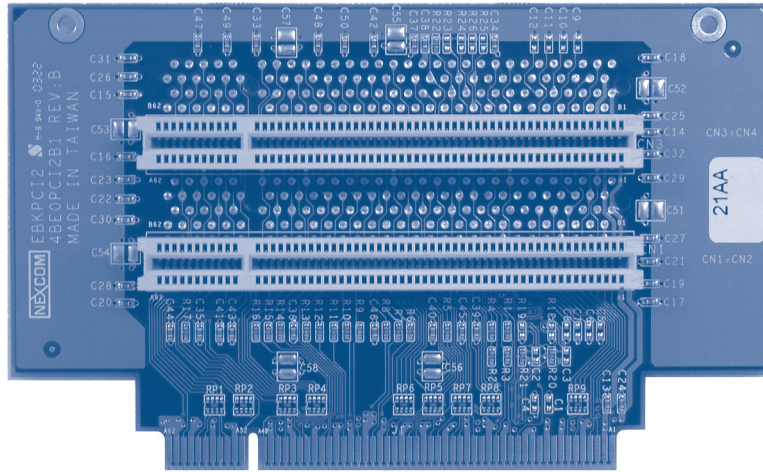
6 Embedded Systems

7 Network Security Appliances

8 Blade Servers

EBK PCI2

PCI Expansion Kit
w/ Dual 32bit/33MHz Interface



Specifications

System Architecture

- ◆ 32bit, 33MHz PCI riser card
- ◆ One PCI slot expands to 2 slots of PCI

Available models

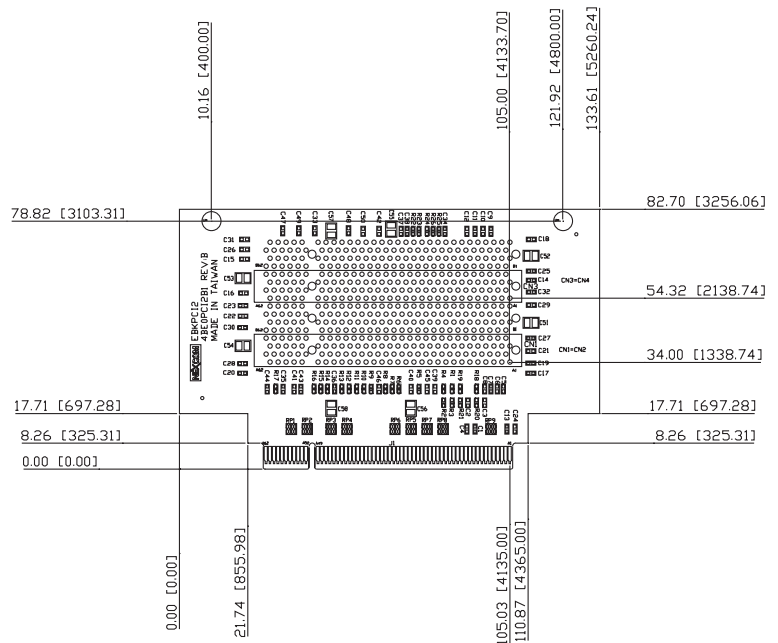
- ◆ EBC series: EBC565, EBC566, EBC572, EBC575

Dimension

- ◆ 133.6 (L) mm x 75 (W)

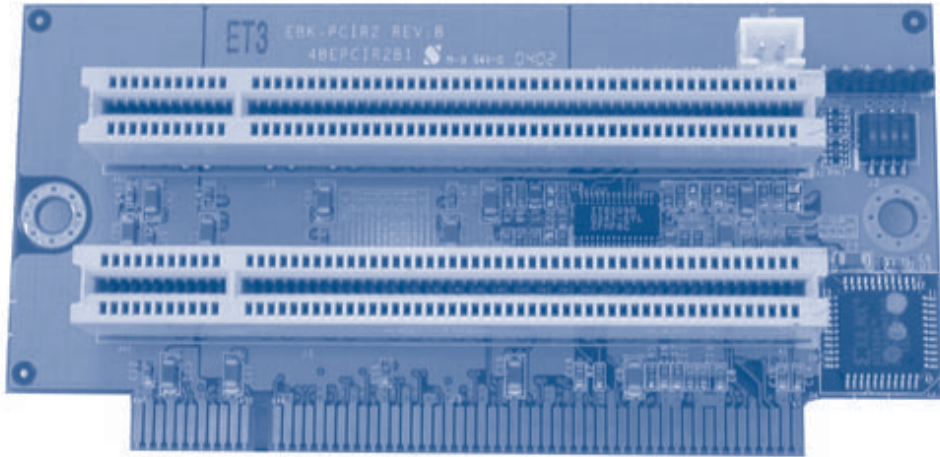
Environments

- ◆ Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% (Non-condensing)



EBK PCI R2

PCI Expansion Kit
w/ Dual 32bit/33MHz Interface



Specifications

System Architecture

- ◆ 32bit, 33MHz PCI riser card
- ◆ One PCI slot expands to 2 slots of PCI (Support Right Direction)

Available models

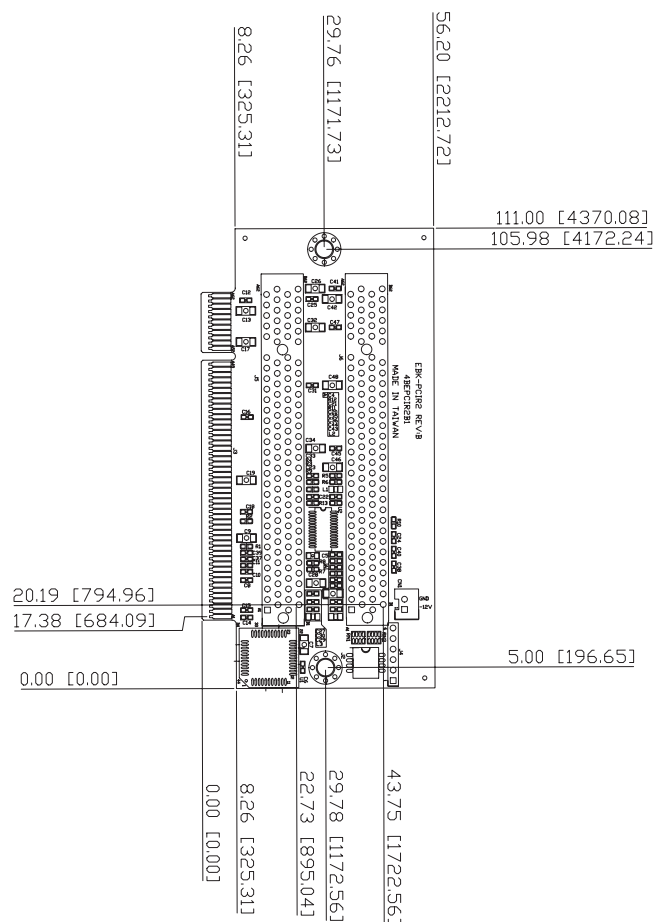
- ◆ EBC series: EBC563, EBC566, EBC569, EBC572

Dimensions

- ◆ 111 (D) x 56.2 (H) mm

Environments

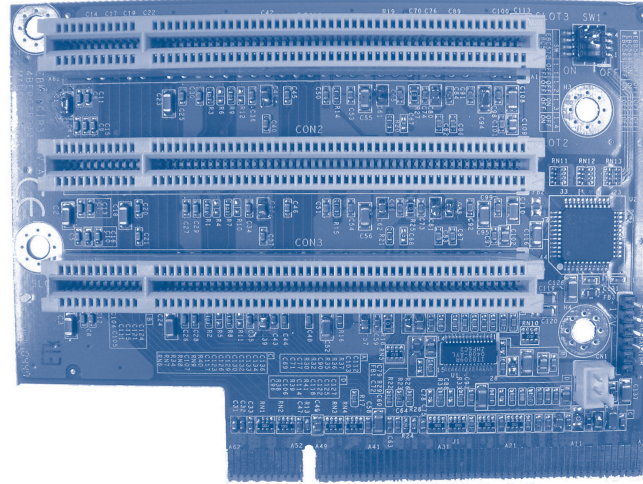
- ◆ Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% (Non-condensing)



- 1 Single Board Computers
- 2 Industrial ATX MB
- 3 Passive Backplanes
- 4 Compact PCI
- 5 Embedded CPU Boards
- 6 Embedded Systems
- 7 Network Security Appliances
- 8 Blade Servers

EBK PCI R3

PCI Expansion Kit
with three 32bit/33MHz Interface



Specifications

System Architecture

- ◆ 32bit, 33MHz PCI riser card
- ◆ One PCI slot expands to 3 x PCI slots

Available Models

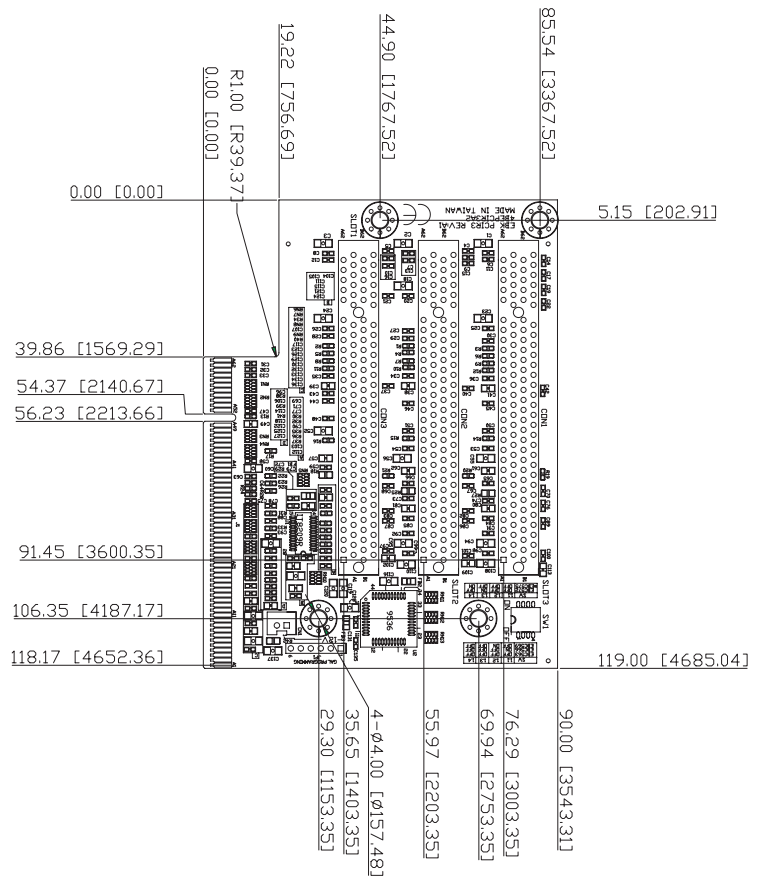
- ◆ EBC series: EBC575, EBC572, EBC569
- ◆ EBC series with BIOS change: EBC563, EBC566

Dimensions

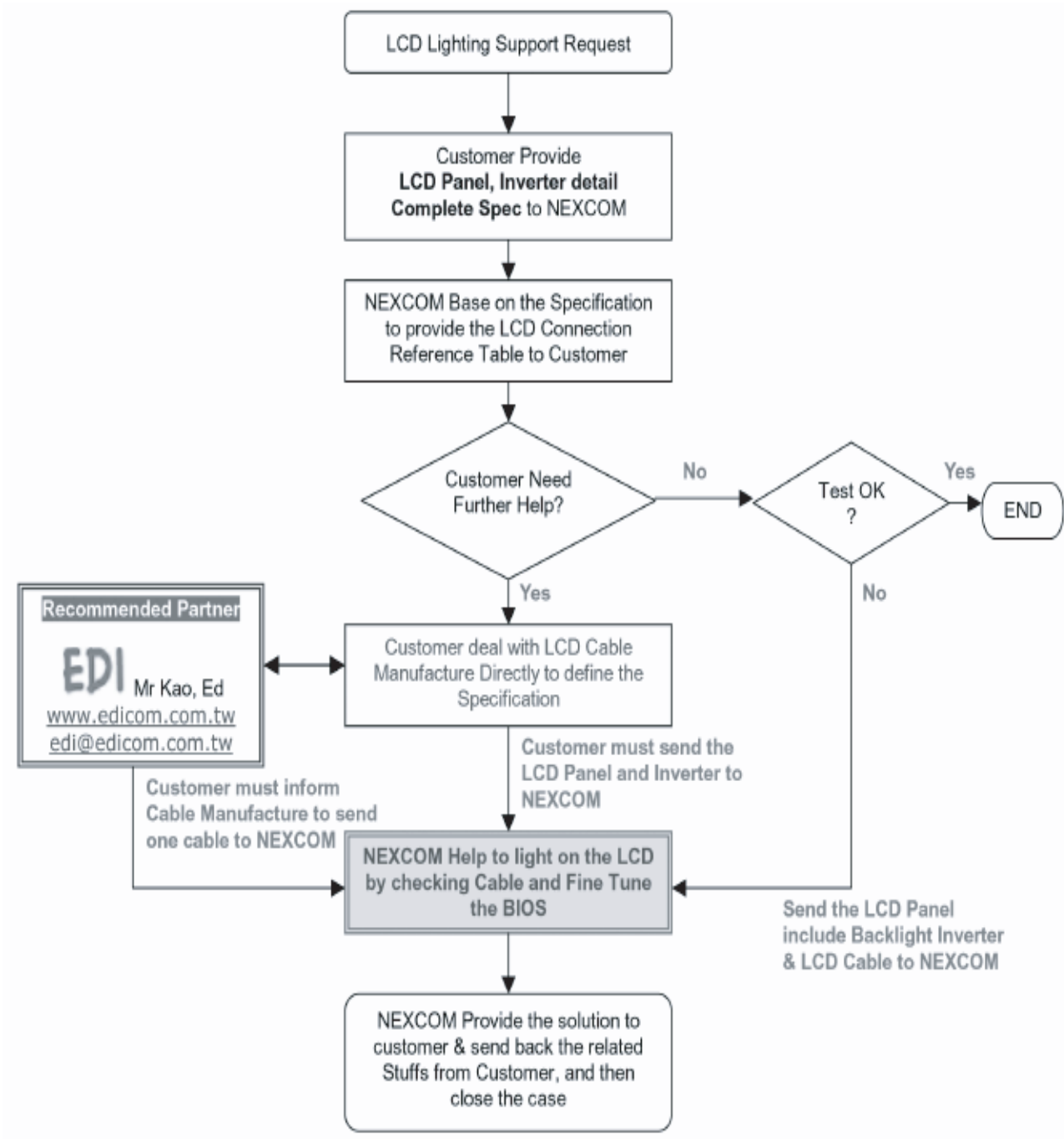
- ◆ 119 (D) x 90 (H) mm

Environments

- ◆ Operating temperatures: 0°C to 60°C
- ◆ Storage temperatures: -20°C to 80°C
- ◆ Relative humidity: 10% to 90% (Non-condensing)



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- 1 Single Board Computers
- 2 Industrial ATX MB
- 3 Passive Backplanes
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- 5 Embedded CPU Boards
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