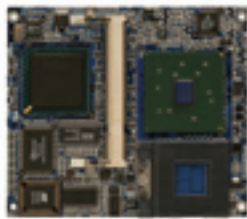


IEM-PM

Pentium® M Highly
Integrated ETX ModuleETX CPU Module with Intel® Pentium® M /
Celeron® M CPU, USB 2.0, LAN & Audio

Solder Side

Heatsink/CPU cooler for various
applications

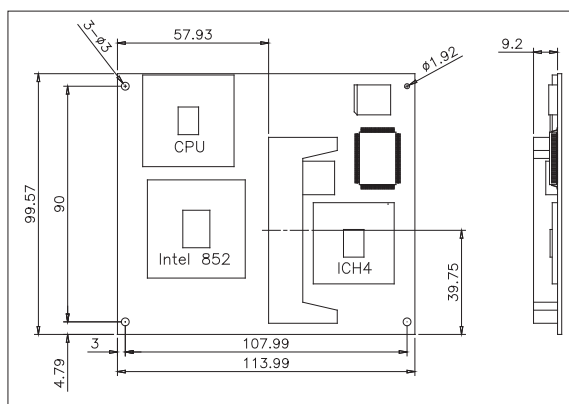
FSB 400

DDR266

Specifications

- ◆ **CPU**
Intel® Celeron® M 600MHz (IEM-PM-600E)
- ◆ **System Chipset**
Intel® 852GM + ICH4
- ◆ **BIOS**
AMI BIOS
- ◆ **System Memory**
1 x SO-DIMM 266MHz SDRAM up to 1GB
- ◆ **Ethernet**
10/100Mbps Intel® 82562ET Ethernet chipset
- ◆ **I/O Interface**
2 x IDE
1 x LPT/FDD
2 x RS-232
4 x USB 2.0
1 x PS/2
- ◆ **Expansions**
4 x PCI bus master
ISA support by Winbond W83629G / W83628G
- ◆ **Audio**
AC' 97 CODEC
- ◆ **Super I/O**
W83627HG
- ◆ **Display Interface**
VGA integrated in Intel® 852GM
18-bit dual channel LVDS
- ◆ **Watchdog Timer**
Software programmable supports 1-255 sec. system reset
- ◆ **Power Supply**
AT/ATX support
- ◆ **Power Consumption**
5V@3.8A
(Celeron® M 1.5G, DDR266/256MB RAM)
- ◆ **Temperature**
Operation: 0°C ~ 60°C (32 ~ 140° F)
- ◆ **Humidity**
Operation: 5% ~ 95%, non-condensing
- ◆ **Dimensions**
99.57 mm x 114 mm
- ◆ **Weight**
GW: 650g; NW: 250g

Dimensions



Packing List

- 1 x IEM-PM single board computer
- 1 x CF-IEM-02 Hetsink (IEM-600E)
- 1 x Utility CD
- 1 x QIG (quick installation guide)

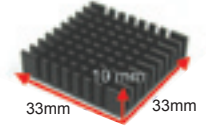
Ordering Information

Part No.	Description
IEM-PM-600E-R10	ULV Intel Celeron® M 600 MHz ETX CPU Module with LAN function

IEM-LX

AMD LX800 Highly
Integrated ETX ModuleETX CPU Module with AMD® LX800
CPU on-board, USB 2.0, LAN & Audio

Solder Side



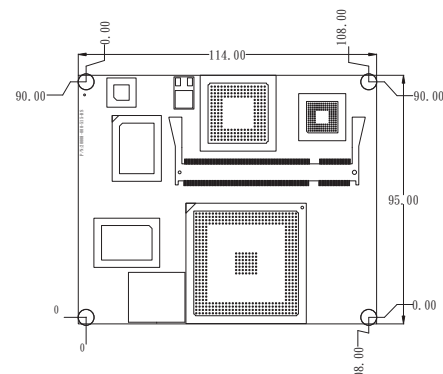
DDR400



Specifications

- ◆ **CPU**
AMD® LX800 processor
- ◆ **System Chipset**
AMD® LX800 + AMD® CS5536
- ◆ **BIOS**
Award BIOS
- ◆ **System Memory**
1 x 200-pin DDR 400/333MHz SO-DIMM SDRAM up to 1GB
- ◆ **Ethernet**
10/100Mbps RTL8100C Ethernet chipset
- ◆ **I/O Interface**
4 x USB 2.0
1 x LPT
1 x CF Type II
1 x IDE
2 x RS-232
1 x PS/2 KB/MS
- ◆ **Expansions**
4 x PCI bus master
ISA support by IT8888G
- ◆ **Audio**
AC'97 Codec Realtek ALC203
- ◆ **Super I/O**
W83627EHG
- ◆ **Display Interface**
VGA integrated in AMD® LX800
24-bit TTL
18-bit single channel LVDS
- ◆ **Watchdog Timer**
Software programmable supports 1-255 sec. system reset
- ◆ **Power Supply**
AT/ATX support
- ◆ **Power Consumption**
5V@0.92A (AMD LX-800 CPU with DDR 333MHz 256MB RAM)
- ◆ **Temperature**
Operation: 0°C ~ 60°C (32 ~ 140° F)
- ◆ **Humidity**
Operation: 5% ~ 95%, non-condensing
- ◆ **Dimensions**
95 mm x 114 mm
- ◆ **Weight**
GW: 650g; NW: 250g

Dimensions



Packing List

- 1 x IEM-LX single board computer
- 1 x Mini jumper pack
- 1 x Utility CD
- 1 x QIG (quick installation guide)

Ordering Information

Part No.	Description
IEM-LX-800-R10	AMD LX800 500MHz processor, VGA/LVDS/TTL, LAN & Audio
IEM-LX-CE060	WindowsCE 6.0 Image & BSP S/W CD, Licensed Sticker (w/o CPU board)
IEM-LX-CE050	WindowsCE 5.0 Image & BSP S/W CD, Licensed Sticker (w/o CPU board)
IEM-LX-XPE	WindowsXP Embedded Image & SLD S/W CD, Licensed Sticker (w/o CPU board)

IEM-8522

ETX CPU Module with Intel Pentium M / Celeron M CPU on-board,
USB 2.0, LAN and Audio



Solder Side



FSB 400

DDR266



Features

1. ETX Form Factor for flexible base board design
2. Intel Pentium M / Celeron M CPU FSB 400MHz on-board
3. Single channel DDR 200/266MHz up to 1GB
4. Support VGA, Dual Channels 18-bit LVDS and TV-out
5. 2 x RS-232, 4 x USB 2.0, LAN, Audio ready for base board

Specifications

- ◆ CPU
On-board Celeron M 600MHz 512K cache / 1.0GHz zero cache Processor with 400MHz FSB
- ◆ System Chipset
Intel 852GM + ICH4
- ◆ BIOS
AMI
- ◆ System Memory
1 x 200-PIN Singal channel DDR 200/266MHz up to 1GB
- ◆ Ethernet
10/100Mbps Intel 82562ET Ethernet chipset
- ◆ I/O Interface
2 x RS-232
1 x LPT
4 x USB 2.0
2 x IDE
1 x FDD
1 x KB/MS
- ◆ Expansions
4 x PCI bus master
ISA support by ITE IT8888G
- ◆ IrDA
1 x IrDA by pin header
- ◆ Super I/O
Winbond W83627HG
- ◆ Display Interface
VGA Integrated in Intel 852GM
18-bit dual channel LVDS
- ◆ Audio
Realtek ALC655 with AC'97 codec
- ◆ Watchdog Timer
Software programmable supports 1 ~255 sec. System reset
- ◆ Power Supply
AT/ATX support
- ◆ Power consumption
5V@3.5A, (Celeron M 1.0GZ, 256MB DDR 333MHz)
- ◆ Temperature
operation: 0 ~ 60°C (32 ~ 140°F)
- ◆ Humidity
operation: 5% ~95 non-condensing
- ◆ Dimensions
95 mm x 114 mm
- ◆ Weight
GW: 650 g / NW: 90 g

Packing List

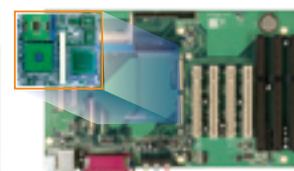
- 1 x IEM-8522 Single Board Computer
- 1 x Heatsink
- 1 x Utility CD
- 1 x QIG

Ordering Information

Part No.	Description
IEM-8522E-R10	Socket 479 Intel Pentium M/Celeron M ETX CPU Module with LAN function
IEM-8522-1GZ-R10	ULV Intel Celeron M 1GHz zero cache ETX CPU Module with LAN function
IEM-8522-600-R10	ULV Intel Celeron M 600MHz 512 cache ETX CPU Module with LAN function

IEM-DB-7S-RS-R30

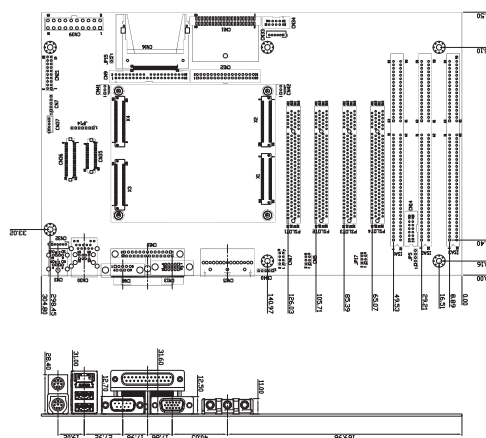
Full Function ETX Baseboard with VGA/ LVDS/ TTL, Audio, CF type II
& Digital I/O



Specifications

CPU Module Interface	ETX Form Factor
Displan Interface	1 x 30-pin 48-bit DFP for LVDS 1 x40-pin for 24bit TTL
Expansions Solt	4 x PCI, 3 x ISA
SSD	CF Type II
Audio	AC'97 codec
Ethernet Connector	1 x RJ-45
RS-232	1
RS-232,422,485	1
KB/MS	2
LPT	1
VGA	1
USB 2.0	4
IDE Connector	2
FDD	1
Digital I/O	4 inputs, 4 outputs
IR connector	5 pin-header
Power Supply	ATX

Dimensions



Packing List

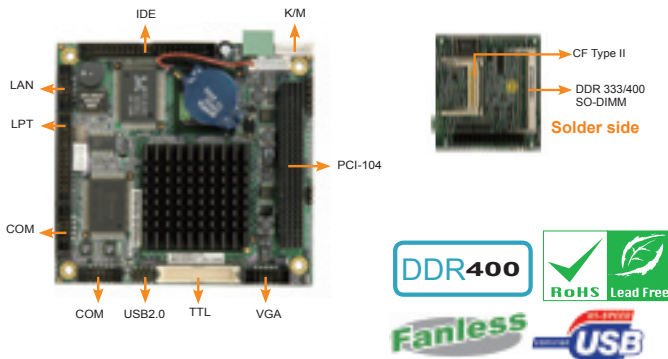
- 1 x IEM-Baseboard single board computer
- 1 x FDD cabel (P/N: 32200-000017-RS)
- 1 x HDD cable (P/N: 32200-000052-RS)
- 1 x RS-232/422/485 cable (P/N: 32200-000063-RS)
- 1 x Mini jumper pack
- 1 x User manual

Ordering Information

Part No.	Description
IEM-DB-7S-RS-R30	ATX Size 7 Slots ETX Baseboard

PM-LX

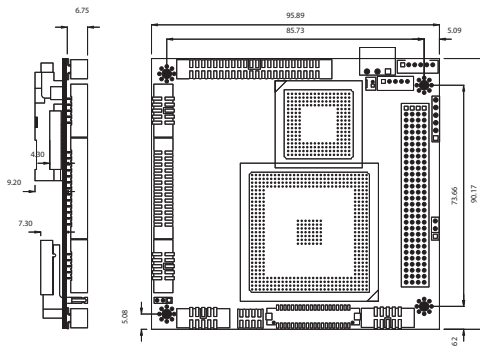
AMD LX800 CPU on-board
PCI-104 Module



Specifications

- ◆ **CPU**
AMD® LX800 500MHz Processor
- ◆ **System Chipset**
AMD® LX800 + AMD® CS5536
- ◆ **BIOS**
Award BIOS
- ◆ **System Memory**
1 x DDR 200-pin DDR333/400 SO-DIMM support up to 1GB
- ◆ **Ethernet**
10/100Mbps Realtek RTL8100C Ethernet chipset
- ◆ **I/O Interface**
2 x USB2.0
1 x LPT
2 x RS-232
1 x RS-422/485
1 x PS/2 for KB/MS
1 x IDE
- ◆ **Expansions**
1 x PCI-104
- ◆ **Super I/O**
W83627EHG
- ◆ **SSD**
CF Type II
- ◆ **Display Interface**
VGA integrated in LX800
24-bit TTL
- ◆ **Watchdog Timer**
Software programmable supports 1-255 sec. system reset
- ◆ **Power Supply**
5V Only, AT support
- ◆ **Power Consumption**
5V@1.13A
(LX800-500MHz, DDR 400/1G RAM)
- ◆ **Temperature**
Operation: 0°~60°C
- ◆ **Humidity**
Operation: 5%~95%,
- ◆ **Dimensions**
95mm(L) x 95mm(W)
- ◆ **Weight**
GW:500g, NW:110g

Dimensions



Packing List

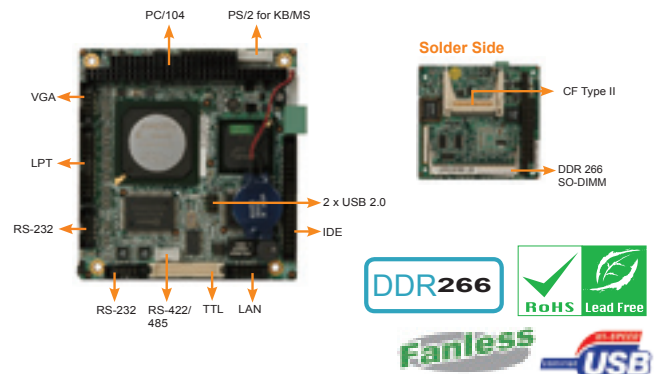
- 1 x PM-LX single board computer
- 1 x Mini jumper pack
- 1 x ATA33 flat cable (P/N:32200-000009-RS)
- 2 x RS-232 cable (P/N:32200-000049-RS)
- 1 x USB cable (P/N: P/N:32000-070300-RS)
- 1 x VGA cable (P/N:32000-033804-RS)
- 1 x LAN cable (P/N:32000-055702-RS)
- 1 x Power cable (P/N:32100-130300-RS)
- 1 x KB/MS Y cable (P/N:32000-023800-RS)
- 1 x Utility CD
- 1 x QIG

Ordering Information

Part No.	Description
PM-LX-800-R10	PCI-104 SBC with AMD LX800 Processor , VGA/TTL, LAN, USB2.0, CF Type II
PM-LX-CE050	WindowsCE 5.0 Image & BSP S/W CD, Licensed Sticker (w/o CPU board)
PM-LX-XPE	WindowsXP Embedded Image & SLD S/W CD, Licensed Sticker (w/o CPU board)
32200-015100-RS	LPT Cable
32200-074800-RS	RS-422/485 Cable

PM-GX

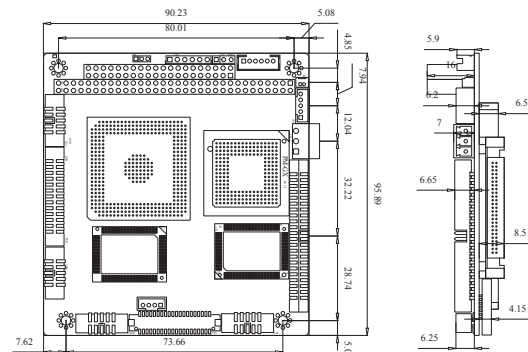
AMD® GX466 CPU on-board
PC/104 Module



Specifications

- ◆ **CPU**
AMD® GX466 333 MHz processor
- ◆ **System Chipset**
AMD® GX466 + CS5536
- ◆ **BIOS**
Award BIOS
- ◆ **System Memory**
1 x 200-pin DDR 266MHz SO-DIMM support up to 512MB
- ◆ **Ethernet**
10/100Mbps RTL8100C Ethernet chipset
- ◆ **I/O Interface**
2 x RS-232
1 x RS-422/485
2 x USB 2.0
1 x IDE
1 x PS/2 for KB/MS
- ◆ **Expansions**
1 x PC/104
- ◆ **Super I/O**
W83627EHG
- ◆ **SSD**
CF Type II
- ◆ **Display Interface**
VGA integrated in AMD® GX466
24-bit TTL
- ◆ **Watchdog Timer**
Software programmable supports 1-255 sec. system reset
- ◆ **Power Supply**
5V only, AT support
- ◆ **Power Consumption**
5V@1.05A
(AMD® GX466, DDR 266MHz 512 MB)
- ◆ **Temperature**
Operation: 0°~60°C
- ◆ **Humidity**
Operation: 5%~95%,
- ◆ **Dimensions**
96mm (L) x 90mm (W)
- ◆ **Weight**
GW: 500g, NW: 110g

Dimensions



Packing List

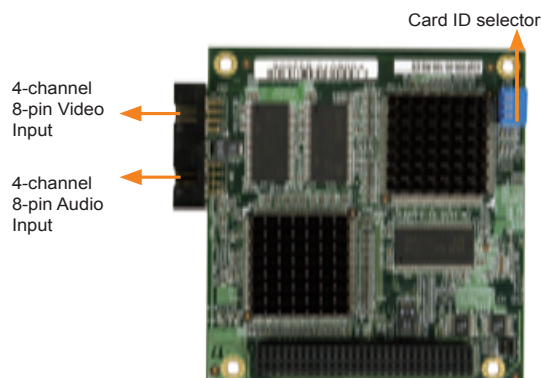
- 1 x PM-GX Single Board Computer
- 1 x ATA33 Flat Cable (P/N: 32200-000009-RS)
- 1 x Single RS-232 Cable (P/N: 32200-000049-RS)
- 1 x VGA Cable (P/N: 32000-033804-RS)
- 1 x LAN Cable (P/N: 32000-055702-RS)
- 1 x KB/MS Y Cable (P/N: 32000-023800-RS)
- 1 x USB Cable (P/N: 32000-070300-RS)
- 1 x Power Cable (P/N: 32100-130300-RS)
- 1 x Mini Jumper Pack
- 1 x Utility CD
- 1 x QIG (Quick Installation Guide)

Ordering Information

Part No.	Description
PM-GX-466-R10	PC/104 SBC with AMD® GX466 333MHz Processor, VGA/TTL, LAN, USB2.0 and CF Type II
PM-GX-CE050	WindowsCE 5.0 Image & BSP S/W CD, Licensed Sticker (w/o CPU board)
PM-GX-XPE	WindowsXP Embedded Image & SLD S/W CD, Licensed Sticker (w/o CPU board)
32200-015100-RS	LPT Cable
32200-074800-RS	RS-422/485 Cable

PM-1059

Hardware MPEG-4 Video/Audio PCI-104 Capture Module

Video input daughter board
With 4 x BNC connectors

2x4p 2.54mm cable

2x4p 2.54mm
to DB9 cableDB9 to RCA jack
audio cable

Features

- ◆ Total 30fps@720x480 for 4 channels
- ◆ Multi-channel real time encoding/decoding
- ◆ Video and audio synchronizing
- ◆ Supports on-screen-display(OSD)
- ◆ Built-in camera lost detection
- ◆ Hardware motion detection
- ◆ Digital watermarking

Specifications

◆ Interface

Video Input	4 channels composite video
Video Input Interface	8-pin 2.54mm connector onboard
Audio Input	4 channels composite video
Audio Input Interface	8-pin 2.54mm connector onboard
PCI-104 Interface	PCI Rev. 2.1 compliant
Card ID	DIP-switch selectable

◆ Video Processing

Video Compression	MPEG-4 Advanced Simple Profile@level 5 (ISO/IEC 14496-2)	
	MPEG-2 Main Profile@main level(ISO/IEC 13818-2)	
	MPEG-1 (ISO/IEC 11172-2)	
	H.263(ITU-T Recommendation H.263)	
Resolution & frame rate	NTSC: 720x480@1~30fps	PAL: 720x576@1~25fps
	720x240@1~60fps	720x288@1~50fps
	360x240@1~120fps	360x288@1~100fps

◆ Audio Processing

Audio Compression	G.726(ADPCM/PCM)
Sampling Rate	8K, 44.1KHz and 48KHz
Quantization	8 bit data depth

◆ Functionality

Video/audio Synchronization	Yes
On-screen Display	Yes
Camera Loss Detection	Yes
Motion Detection	Hardware Built-in
Watermarking	128 bit secret key, adjustable length
Encoding Bitrate Control	VBR, CBR for each channel

◆ System Requirement

System	x86 PC compatible computer
Graphic	DirectX compatible VGA card supporting YUV overlay mode

◆ Software Support

Device Drive	Driver for Windows 2000/XP
SDK	Provide SDK and demo program Complete source code of demo program in C++

◆ Operation Environment

Dimensions	96mm x 91 mm
Operation Temperature	0~60°C(32~140°F), non-condensing
Power Consumption	7.5W, 1.5A@5V

Packing List

1 x PM-1059 video capture module
1 x QIG
1 x Utility CD
1 x DB-9 to RCA jack audio cable
1 x 2x4p 2.54mm cable
1 x video input daughter board
1 x 2x4p 2.54mm to DB-9 cable

Ordering Information

Part No.	Description
PM-1059-R10	4-channel MPEG-4 video & audio PCI-104 capture module, RoHS