

EPX-8800

Half-size ePCI-X Intel Pentium M SHB

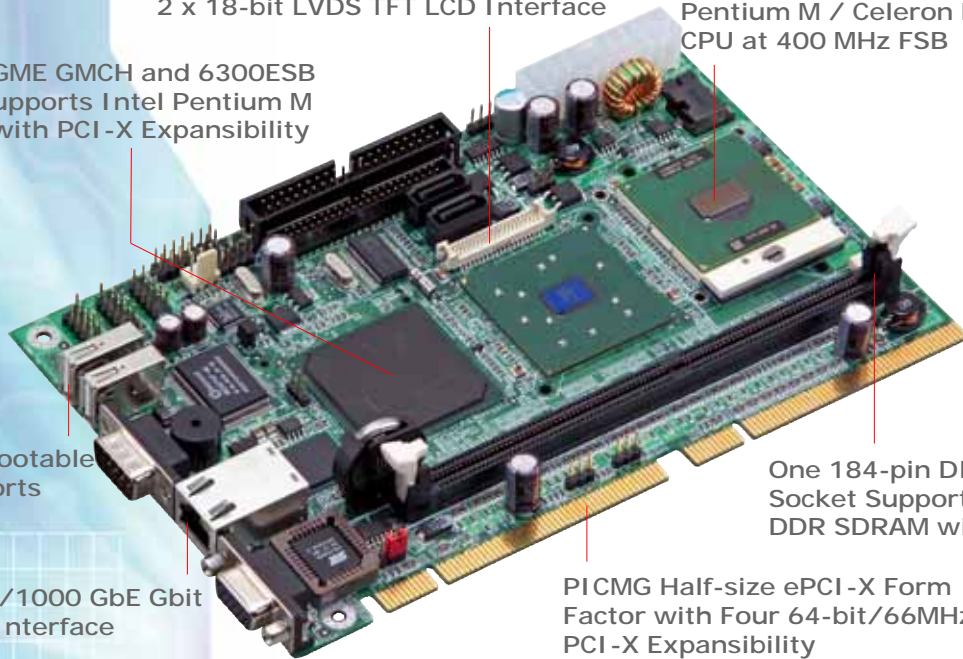
Intel 855GME GMCH and 6300ESB Chipset Supports Intel Pentium M Platform with PCI-X Expansibility

Intel 855GME GMCH Built-in
2 x 18-bit LVDS TFT LCD Interface

Embedded Intel Mobile
Pentium M / Celeron M
CPU at 400 MHz FSB

External Bootable
USB 2.0 Ports

Intel PRO/1000 GbE Gbit
Ethernet Interface



One 184-pin DIMM
Socket Support 1 GB
DDR SDRAM with ECC

PICMG Half-size ePCI-X Form
Factor with Four 64-bit/66MHz
PCI-X Expansibility

The EPX-8800 is an all-in-one industrial PICMG ePCI-X (Embedded PCI-X) SHB (System Host Board) based on Intel mobile Pentium M platform, and features the Intel low power / high performance computing capacity, 64-bit / 66 MHz PCI-X expansibility at half-size board size for the compact, low power, high performance, embedded, flexible and expansible computing application.

Key Features

- PICMG half-size ePCI-X (Embedded PCI-X) SHB (System Host Board).
- Embedded mobile Intel Pentium M / Celeron M CPU with 400 MHz FSB and on-die 1M/2M L2 cache.
- Support 1 GBytes DDR200/266 SDRAM with optional ECC.
- Intel 855GME GMCH Built-in Intel Externe Graphics 2 with 266 MHz VGA Core, 2D/3D Engine and Intel DVMT Video Memory up to 64 MBytes.
- Onboard single-/dual-channel 18-bit LVDS TFT LCD interface.
- Intel 6300ESB chipset with four 64-bit / 66 MHz PCI-X expansibility.
- Onboard Intel PRO/1000 GbE Gigabit Ethernet Interface.
- Dual hot-swappable Serial ATA interfaces.
- Bootable / hot-swappable Hi-Speed USB 2.0 Ports.
- External dual bootable / hot-swappable Hi-Speed USB 2.0 ports.
- Onboard CompactFlash bootable / driver Free flash disk interface.
- Standard / compact board size with 191 x 122 mm (L x W).
- Reliable solid state capacitor.

Liantec

www.liantec.com

EPX-8800

**Half-size ePCI-X Intel Pentium M SHB
Support Intel Pentium M / Celeron M CPU
with VGA, LVDS, SATA, Intel GbE, Audio
PICMG ePCI-X with 64-bit / 66MHz PCI-X**



Form Factor

PICMG ePCI-X half-size SHB form factor at 191 x 122 mm

CPU

Intel embedded Pentium M / Celeron M CPU @ 400 MHz FSB
Optional Intel Pentium M LV / Celeron ULV CPU for OEM project

Memory

One 184-pin DIMM socket supports 1 GB DDR SDRAM

Chipset

Intel 82855GME GMCH and ESB6300 ICH-H chipset

Watchdog Timer

Programmable system reset watchdog timer

PCI Enhanced IDE Port

40-pin primary and 44-pin secondary UltraATA100 IDE ports

Serial-ATA (SATA) Port

Intel ICH-H chipset built-in Serial ATA (SATA) controller
Dual bootable SATA ports, optional RAID level 0 or 1

Expansion Interface

PICMG ePCI-X standard with four bus master 64-bit / 66 MHz
PCI-X or four bus master 32-bit / 33 MHz PCI expansion bus
via golded ginger with backplane

VGA Interface

Intel 855GME GMCH built-in Intel Extreme Graphics 2
External DB15 female connector for CRT on rear I/O panel

LVDS LCD Interface

Intel 855GME GMCH built-in LVDS transmitter
Supports single-/dual-channel 18-bit LVDS TFT LCD
Onboard 40-pin Hirose DF13-40DP-1.25V connector

Audio Interface

Intel ICH-H chipset with onboard ACL655 AC97 3D audio codec
5.1 channel, line-in, line-out, mic-in, and CD-in interface

Ethernet Interface

Onboard Intel PRO/1000MT Gigabit Ethernet interface
10/100/1000BASE-TX auto-switching, IEEE802.3U compliant
External RJ45 connector with LED on bracket

Hi-Speed USB 2.0 and Multi-I/O Port

4 USB 2.0 ports with 2 internal and 2 external on bracket
2 RS232 serial ports with 1 internal and 1 external on bracket

External I/O Port on Bracket

Dual USB, RS232 COM, RJ45 GbE, DB15 Female VGA

Solid State Flash Disk Interface

CompactFlash Card Socket

Onboard CompactFlash socket supports CompactFlash Card
(CFC) with PIO mode 4 / Multi-Word mode 2
Default setted as secondary IDE channel at master mode
Bootable, drive free IDE-based flash disk
Flash memory capacity up to 32GB (and beyond)

DiskOnModule (DOM) Flash Disk

Onboard IDE ports support DiskOnModule (DOM) flash disk
44-/40-pin DiskOnModule at PIO mode 4 / Multi-Word mode 2
Bootable, drive free IDE-based flash disk
Flash memory capacity up to 8GB (and beyond)

Environment

Power Requirement: onboard 20-pin ATX power connector
Board Dimension: 191 x 122 mm (L x W)
Operation Temperature: 0 ~ 60°C (32 ~ 140°F)

Passive Backplane (Optional)

BPX-5P4 PICMG half-size ePCI-X passive backplane with four
64-bit / 66MHz PCI-X OR 32-bit / 33MHz PCI bus interfaces.

Ordering Code

EPX-8800S

Half-size ePCI-X Embedded Pentium M / Celeron M SHB
with VGA, LVDS, SATA, Audio, Intel GbE and PCI-X

EPX-8800PM738

Same as EPX-8800S but with Onboard Intel Pentium M LV
738 CPU 1.4GHz / 400 FSB / 2MB Cache Fanless Operating

EPX-8800CM373

Same as EPX-8800S but with Onboard Intel Celeron M ULV
373 CPU 1.0GHz / 400 FSB / 1MB Cache Fanless Operating

EPX-8800-OEM

Customized EPX-8800 EmBoard with Board-mounted
Intel embedded Pentium M LV / Celeron M ULV Fanless
Platform and Optional Ethernet Configuration and Functions.

Please visit the website of <http://www.liantec.com> for the further information.