

ITX-6900

Mini-ITX Intel 915GME Express EmBoard

Intel Mobile Pentium M / Celeron M CPU on 915GME Express Platform with Built-in GMA900 Graphic Core

2 Serial ATA (SATA) Ports

Tiny-Bus® Modular Expansion Solution with x16 PCI Express and Intel Dual Channel SDVO Graphics, PCI-Express x1/x4 (4-lane) and PCI Bus Interface

PCI Expansion Slot with 4 Bus Master PCI

Gigabit Ethernet

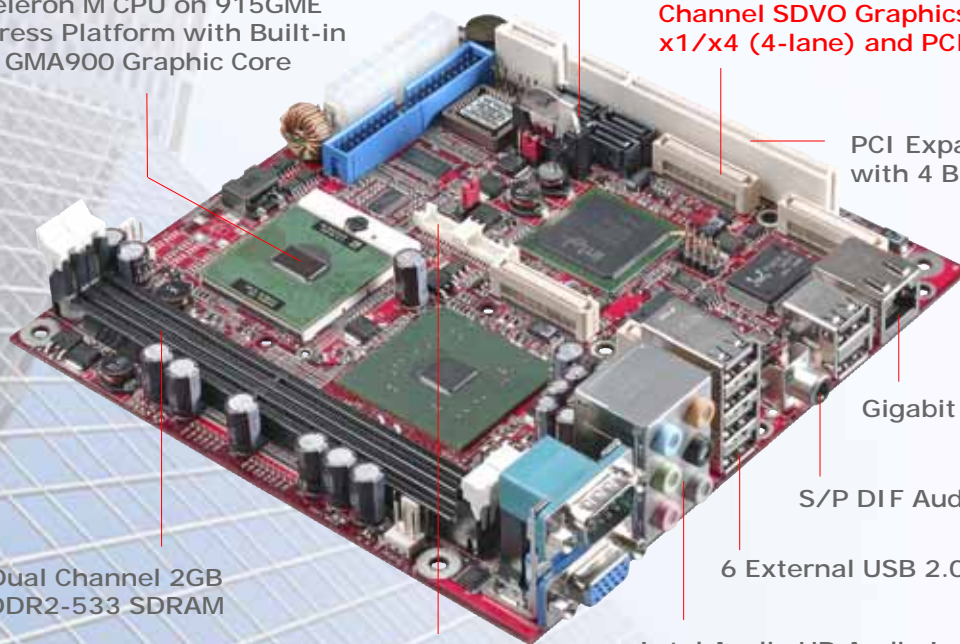
S/P DIF Audio In/Out Port

6 External USB 2.0 Ports

Intel Azalia HD Audio Interface with 7.1 Channel Phone Jack

Dual Channel 18-bit LVDS TFT LCD Interface

Dual Channel 2GB DDR2-533 SDRAM



The Liantec ITX-6900 is an all-in-one industrial embedded motherboard based on the Mini-ITX form factor and Intel Centrino™ mobile platform with Intel Pentium M / Celeron M CPU and 915 Express chipset, and features the Liantec Tiny-Bus® Modular Expansion Solution with x16 PCI Express and Intel dual channel SDVO Graphics, PCI Express x1 / x4 (4-lane) and PCI bus interface. With the Intel mobile platform technology, Mini-ITX form factor and the Tiny-Bus® Modular Expansion Solution, the ITX-6900 offers the Small Form Factor (SFF) industrial x86-based computing solution with embedded and flexible modular expansibility.

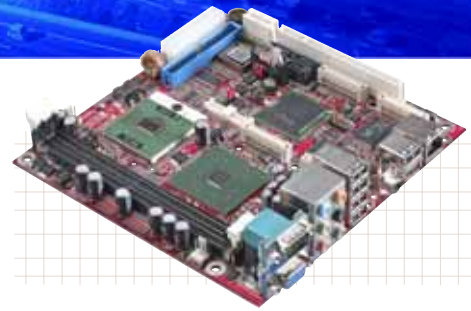
Key Features

- Intel embedded mobile 915 Express platform with Intel mobile Pentium M / Celeron M CPU, DDR2 SDRAM and GMCH built-in GMA900 graphic core.
- Optional Intel Pentium M LV and Celeron ULV CPU for fanless operating.
- Intel 915GME GMCH built-in dual channel 18-bit LVDS TFT LCD interface.
- Optional Tiny-Bus® Intel SDVO-based DVI, HDTV, and mini-PCI module.
- Onboard Intel Azalia HD (High Definition) audio with 7.1-CH and S/P DIF.
- Onboard 10/100/1000BASE-TX Gigabit Ethernet interface.
- Extended PCI slot supports up to 4 bus master PCI bus interfaces.
- **Tiny-Bus® Modular Expansion Solution with x16 PCI Express and Intel dual channel SDVO Graphics, PCI Express x1 / x4 (4-lane) and PCI bus interface.**
- 6 external and 2 internal Hi-Speed USB 2.0 ports.
- 2 SATA (Serial-ATA) ports with 150MBps of data transfer rate.
- Compact, slim type and fanless barebone solutions are available.



ITX-6900

Mini-ITX Intel Mobile 915-Express EmBoard Intel Pentium M Platform with GMA900 Core with LVDS, Azalia Audio, Gbit Ethernet, SATA and Tiny-Bus® Modular Expansion Solution



Form Factor

Mini-ITX / Mini-FlexATX form factor at 170 x 170 mm

CPU

Intel mobile Pentium M / Celeron M CPU at 533/400MHz FSB
Customized Intel Pentium M LV / Celeron M ULV for OEM

Memory

Two DDR2 DIMM support 2GB dual channel DDR2 SDRAM

Chipset

Intel Embedded Mobile 915GME GMCH and ICH6-M chipset

Watchdog Timer

Programmable system reset watchdog timer

SATA and IDE (PATA) Port

Onboard one 40-pin UltraATA100 IDE port
2 Serial-ATA (SATA) ports with 150MBps data transfer rate

Expansion Bus Interface

One extended PCI slot supports four bus master PCI bus
(one PCI bus master shared with Liantec Tiny-Bus®)
Liantec Tiny-Bus® embedded modular expansion solution with
x16 PCI Express and Intel dual channel SDVO Graphics, PCI
Express x1 / x4 (4-lane) and PCI bus interface

Video Interface (VGA and LVDS)

Intel mobile 915GME GMCH built-in GMA900 VGA core
with dual-channel 18-bit LVDS transmitter
External DB15 female connector for VGA on rear I/O panel
Onboard 40-pin Hirose DF13-40DP-1.25V LVDS connector

Audio Interface

Intel Azalia High Definition (HD) audio with ACL888S codec
Supports 7.1 / 5.1 channel and S/P DIF audio interface
External 6 phone jack and internal pin header connector
External RCA jack for S/P DIF with jumper selectable in/out

Ethernet Interface (Optional Intel / RTL)

Optional Intel / Realtek (RTL) Gigabit Ethernet interface
External RJ45 connector with LED on rear I/O panel

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

6 external and 2 internal Hi-Speed USB 2.0 ports
One external and one internal RS232 COM port

External Rear I/O Port

DB15 female VGA and DB9 male COM port
7.1 channel and S/P DIF audio port
Four USB 2.0 ports
S/P DIF In/Out RCA connector
Dual USB ports
RJ45 Gigabit Ethernet port
Other external ports on add-on Tiny-Bus® module

Environment

Power Requirement: onboard 20-pin ATX power connector
Board Dimension: 170 x 170 mm (L x W)
Operation Temperature: 0 ~ 60°C (32 ~ 140°F)

Tiny-Bus® Modular Expansion Solution

ITX-6900 supports Tiny-Bus® Modular Expansion Solution with
x16 PCI Express and Intel dual channel SDVO Graphics, PCI
Express x1 / x4 (4-lane) and PCI bus interface.

- **TBM-1610:** PCI-EG MXM Mobile Graphics Module
- **TBM-16SDVO:** Intel SDVO DVI, HDTV, Mini-PCI Module
- **TBM-1410:** PCIe ExpressCard and Mini-PCI Module
- **TBM-1420:** PCIe 4ch/120fps Video Capture Module
- **TBM-1200:** Dual Mini-PCI Module
- **TBM-1210:** Dual PCMCIA CardBus and Mini-PCI Module
- **TBM-1220:** Video Capture and Mini-PCI Module
- **TBM-1222:** 4ch/120fps Video Capture and Mini-PCI Module
- **TBM-1230:** 4-Port Switch Hub and Mini-PCI Module
- **TBM-1240:** 4-Port Gbit Ethernet and Mini-PCI Module
- **TBM-1250:** 4-/8-Port RS232 COM and Mini-PCI Module

Other customized x16 PCIe Graphics / Intel SDVO / PCIe /
PCI-based Tiny-Bus® modules for ODM / OEM project. For
the further information about Liantec Tiny-Bus® modules,
please visit the website at <http://www.liantec.com>.

Ordering Code

ITX-6900L: Mini-ITX Intel 915GME Pentium M EmBoard
with VGA, LVDS, Audio, Gbit Ethernet and
Tiny-Bus Modular Expansion Solution

ITX-6900LDHP: ITX-6900L with **TBM-16SDVO** module
Supports DVI, HDTV and Mini-PCI Socket

ITX-6900LEP: ITX-6900L with **TBM-1410** module
Supports ExpressCard and Mini-PCI Socket

ITX-6900-OEM: Customized ITX-6900 based EmBoard with
Onboard Intel Pentium M LV / Celeron M ULV
CPU and Tiny-Bus® Expansion Module.

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