

# ITX-6910

Mini-ITX Intel 915GME Express EmBoard

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

Dual Channel 2GB  
DDR2-533 SDRAM

Dual Channel 18-bit  
LVDS TFT LCD Interface

7.1-CH Intel  
Azalia HD Audio

6 External USB2.0 Ports

S/P DIF Audio

Gigabit Ethernet

2 SATA-150 Ports

x16 PCI Express Graphics Slot

**Tiny-Bus® Modular Expansion Solution  
with PCI-Express x1/x4 (4-lane) and  
Dual Bus Master PCI Bus Interface**

The Liantec ITX-6910 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, supports x16 PCI Express Graphics expansive slot and features the Liantec Tiny-Bus® Modular Expansion Solution with PCI Express x1 / x4 (4-lane) and dual bus master PCI bus interface. With the Intel mobile platform technology, Mini-ITX form factor and embedded Tiny-Bus® Modular Expansion Solution, the ITX-6910 offers the Small Form Factor (SFF) x86-based computing solution with embedded and flexible modular expansibility.

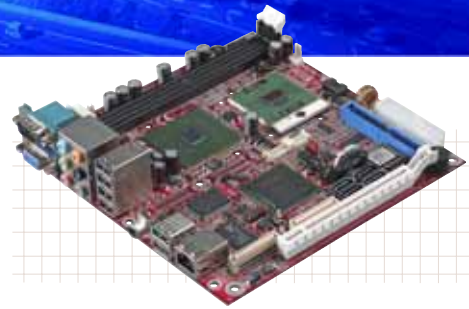
## Key Features

- 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® PCI Express based ExpressCard 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.
- x16 PCI Express Graphics expansion slot supports advanced VGA card.
- **Tiny-Bus® Modular Expansion Solution with 4-lane PCI Express with four x1 PCI Express or one x4 PCI Express, and dual bus master 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-6910

## Mini-ITX Intel Mobile 915-Express EmBoard with x16 PCI-Express Graphics Interface Intel Azalia HD 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 x16 PCI Express Graphics slot  
Liantec Tiny-Bus® embedded modular expansion solution with  
PCI Express x1 / x4 (4-lane) and PCI bus interface

### Video Interface (VGA, LVDS, TV-out)

Intel 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  
x16 PCI Express Graphics slot for additional VGA card

### 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-6910 supports Tiny-Bus® Modular Expansion Solution with  
PCI Express x1 / x4 (4-lane) and PCI bus interface.

- **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 4-lane PCIe / PCI-based embedded Tiny-Bus® modules for ODM / OEM. For the further information about the Liantec embedded Tiny-Bus® modules, please visit the website at <http://www.liantec.com>.

### Ordering Code

**ITX-6910L:** Mini-ITX Intel 915GME Pentium M EmBoard  
with x16 PCI Express Graphics Slot,  
VGA, LVDS, HD Audio, Gbit Ethernet, SATA,  
and Tiny-Bus Modular Expansion Solution

**ITX-6910LEP:** ITX-6910L with **TBM-1410** module  
Supports ExpressCard and Mini-PCI Socket

**ITX-6910LMP2:** ITX-6910L with **TBM-1200** module  
Supports Dual Mini-PCI Sockets

**ITX-6910-OEM:** Customized ITX-6910 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.