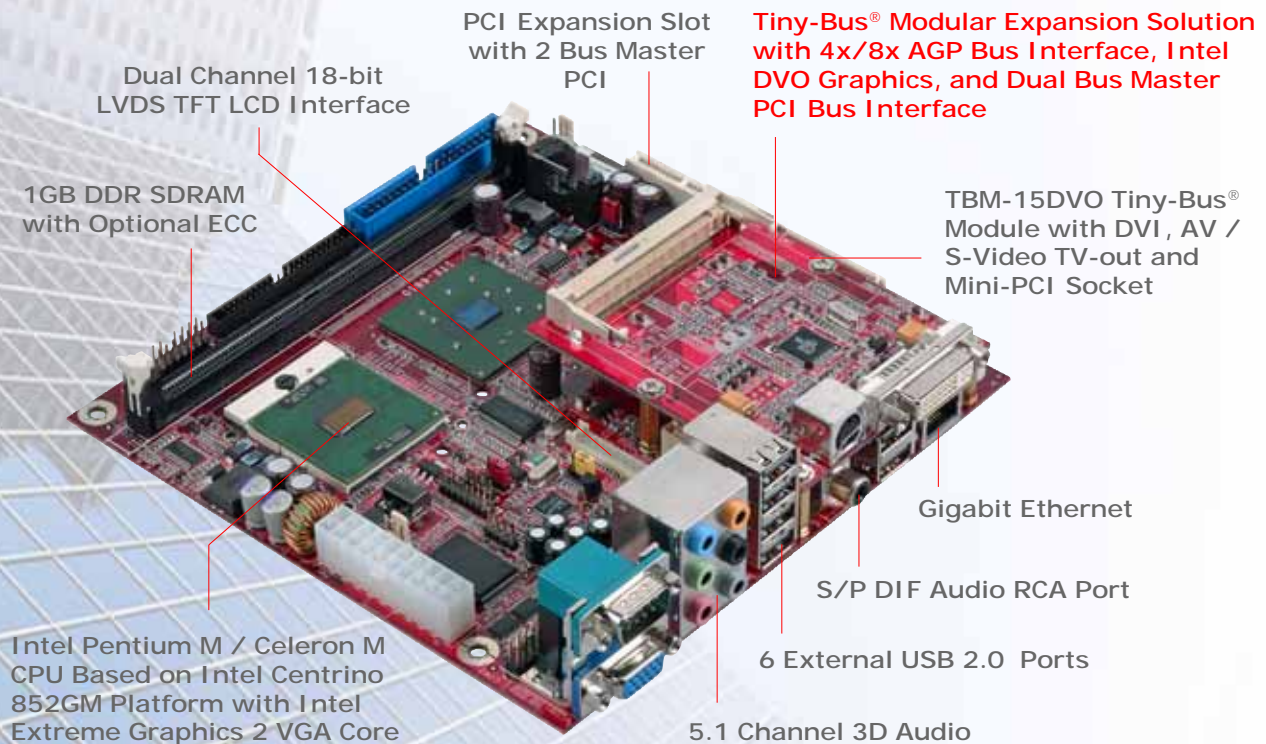


# ITX-6810

Mini-ITX Intel Pentium M EmBoard



The Liantec ITX-6810 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, 82852GM GMCH and ICH4 chipset, and features the Liantec Tiny-Bus® Modular Expansion Solution with 4x / 8x AGP bus interface, Intel dual channel DVO Graphics, and dual bus master PCI bus interface. With the Intel mobile platform technology, Mini-ITX form factor and Liantec Tiny-Bus® Modular Expansion Solution, the ITX-6810 offers the Small Form Factor (SFF) industrial x86-based computing solution with embedded and flexible modular expansibility.

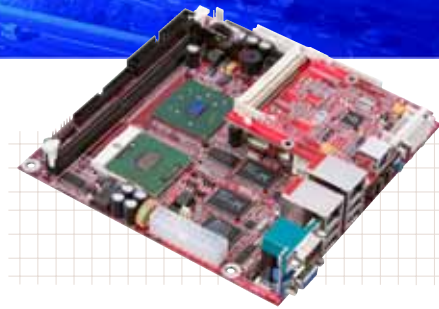
## Key Features

- Intel embedded mobile 852GM platform with Intel mobile Pentium M / Celeron M CPU, DDR SDRAM and GMCH built-in 3D graphics core.
- Optional Intel Pentium M LV and Celeron ULV CPU for fanless operating.
- Intel 852GM GMCH built-in dual channel 18-bit LVDS TFT LCD interface.
- Optional Intel DVO-based DVI, Composite AV / S-Video TV-out and mini-PCI socket based on TBM-15DVO Tiny-Bus module.
- Onboard 5.1 channel AC97 3D audio and Gigabit Ethernet interface.
- One PCI slot supports two bus master PCI bus interfaces.
- **Tiny-Bus® Modular Expansion Solution with 4x / 8x AGP bus interface, Intel DVO Graphics, and dual bus master PCI bus interface.**
- 6 external and 2 internal Hi-Speed USB 2.0 ports.
- Compact, slim type and fanless barebone solutions are available.



# ITX-6810

## Mini-ITX Intel Pentium M / Celeron M EmBoard with VGA, LVDS, Audio, Gbit Ethernet Optional DVI, TV-out and Mini-PCI Interface 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

One DDR DIMM supports 1GB DDR SDRAM

### Chipset

Intel embedded mobile 852GM GMCH and ICH4 chipset

### Watchdog Timer

Programmable system reset watchdog timer

### PCI Enhanced IDE Port

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

### Expansion Bus Interface

One PCI slot supports two bus master PCI bus interface  
Liantec Tiny-Bus® Modular Expansion Solution with AGP, Intel  
DVO Graphics, and dual bus master PCI bus interface

### Video Interface (VGA and LVDS)

Intel mobile 852GM GMCH built-in Extreme Graphics 2 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

### Extended Video Interface (DVI and TV-out)

Intel 852GM GMCH built-in DVO interface  
Intel DVO-based DVI and TV-out via Tiny-Bus® module

### Audio Interface

AC97 3D audio with Intel ICH4 and onboard ACL655 codec  
Supports 5.1 channel and S/P DIF audio interface  
External 3 phone jack and internal pin header connector

### 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  
6 phone jack 5.1 channel AC97 3D audio  
Four USB 2.0 ports  
S/P DIF audio RCA connector  
Dual USB 2.0 ports  
RJ45 Gigabit Ethernet port  
Optional DVI and TV-out connectors on TBM-15DVO module  
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-6810 supports Tiny-Bus® Modular Expansion Solution with  
AGP, Intel DVO and dual bus master PCI bus interface.

- **TBM-15DVO:** Intel DVO DVI, TV-out and Mini-PCI 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 AGP / DVO / PCI-based Tiny-Bus® modules for ODM / OEM project. For the further information about the Liantec embedded Tiny-Bus® modules, please visit the website at <http://www.liantec.com>.

### Ordering Code

**ITX-6810L:** Mini-ITX Intel Pentium M / Celeron M EmBoard  
with VGA, LVDS, Audio, Gbit Ethernet,  
and Tiny-Bus Modular Expansion Solution

**ITX-6810LDTP:** ITX-6810L with **TBM-15DVO** module  
Supports DVI, TV-out and Mini-PCI Socket

**ITX-6810LMP2:** ITX-6810L with **TBM-1200** module  
Supports Dual Mini-PCI Sockets

**ITX-6810LCP:** ITX-6810L with **TBM-1210** module Supports  
Dual PCMCIA CardBus and Mini-PCI Socket

**ITX-6810-OEM:** Customized ITX-6810 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.