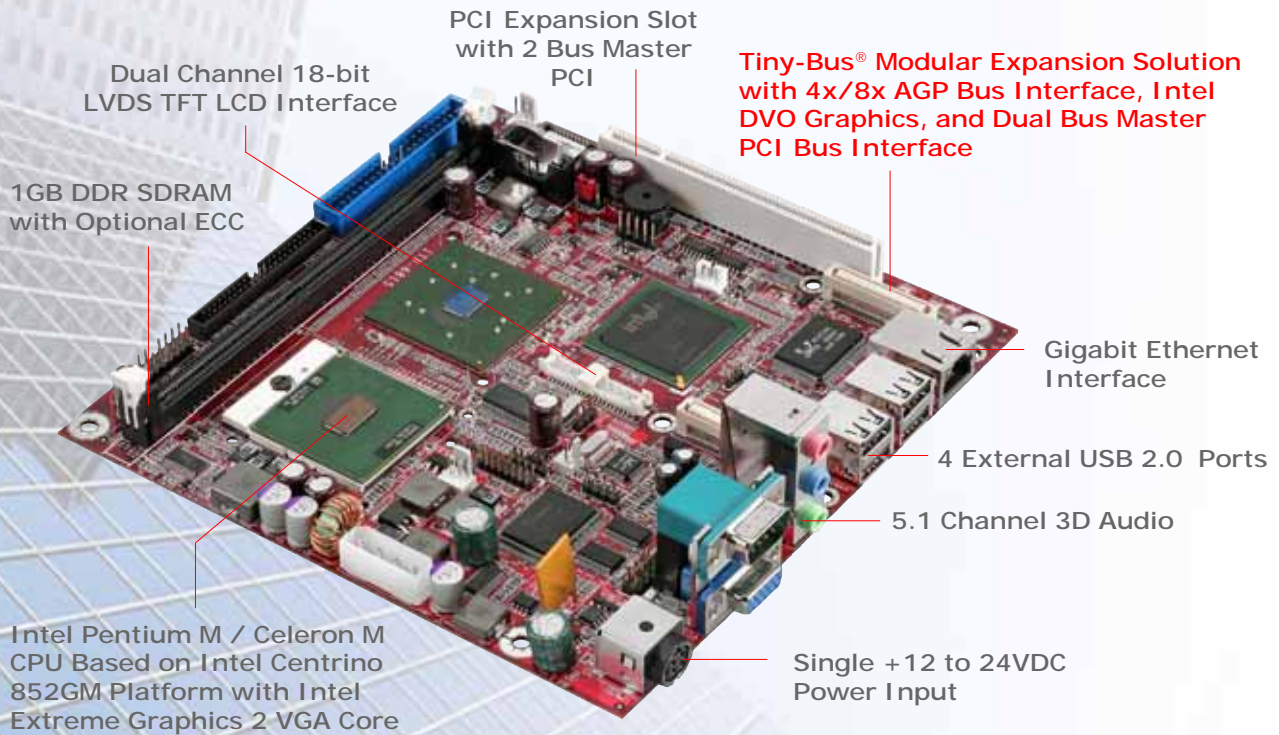


ITX-6815

Mini-ITX Intel Pentium M EmBoard



The Liantec ITX-6815 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-6815 offers the Small Form Factor (SFF) industrial x86-based computing solution with embedded and flexible modular expansibility.

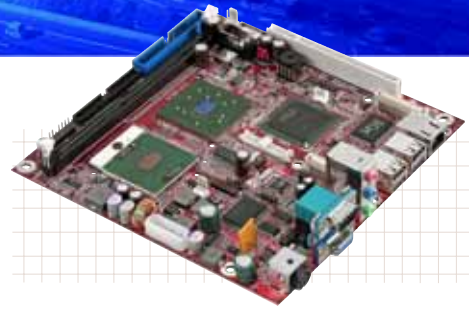
Key Features

- 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 Tiny-Bus® Intel DVO-based DVI, TV-out, and mini-PCI 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.**
- 4 external and 2 internal Hi-Speed USB 2.0 ports.
- Single wide range +12 to 24V DC power operating with optional external power jack or internal power wafer.
- Compact, slim type and fanless barebone solutions are available.



ITX-6815

Mini-ITX Intel Pentium M / Celeron M EmBoard with VGA, LVDS, Audio, Gbit Ethernet Single 12 ~ 24V DC Power Operating 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

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

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

External Rear I/O Port

4-pin DC power jack (optional internal 4-pin power wafer)
DB15 female VGA and DB9 male COM port
3 phone jack 5.1 channel AC97 3D audio
Two Dual USB 2.0 ports (four totally)
RJ45 Gigabit Ethernet port
Other external ports on add-on Tiny-Bus® module

Environment

Power Requirement: single +12 to 24V DC power operating
Board Dimension: 170 x 170 mm (L x W)
Operation Temperature: 0 ~ 60°C (32 ~ 140°F)

Tiny-Bus® Modular Expansion Solution

ITX-6815 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 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-6815L: Mini-ITX Intel Pentium M / Celeron M EmBoard
with VGA, LVDS, Audio, Gbit Ethernet, DC-IN
and Tiny-Bus Modular Expansion Solution

ITX-6815LDTP: ITX-6815L with **TBM-15DVO** module
Supports DVI, TV-out and Mini-PCI Socket

ITX-6815LMP2: ITX-6815L with **TBM-1200** module
Supports Dual Mini-PCI Sockets

ITX-6815LCP: ITX-6815L with **TBM-1210** module Supports
Dual PCMCIA CardBus and Mini-PCI Socket

ITX-6815LJ: Same as ITX-6815L but
with Internal DC Power Input Wafer
(without External DC Power Jack)

ITX-6815-OEM: Customized ITX-6815 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.