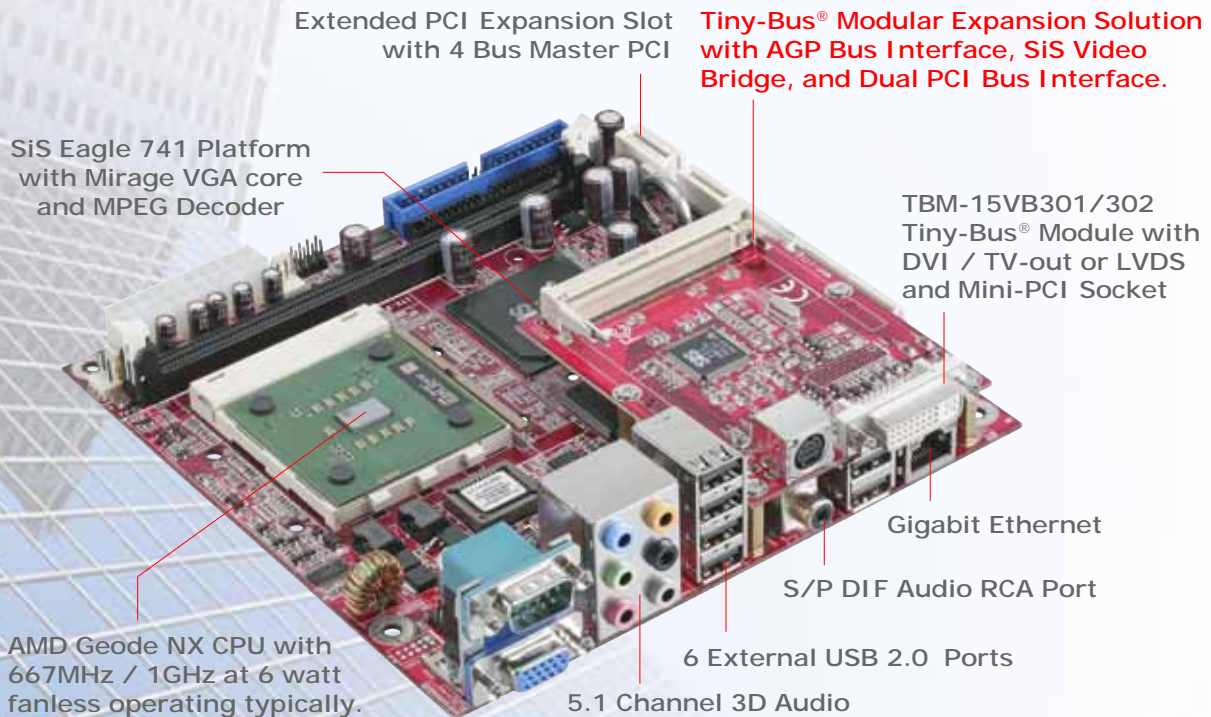


# ITX-6700

Mini-ITX AMD Geode NX EmBoard



The Liantec ITX-6700 is an all-in-one industrial embedded motherboard based on the Mini-ITX form factor and AMD embedded Geode NX platform with AMD low power Geode NX CPU, SiS Eagle 741CX chipset, and features the Liantec Tiny-Bus® Modular Expansion Solution with AGP bus interface, SiS VB video bridge, and dual bus master PCI bus interface. With the AMD embedded Geode NX technology, Mini-ITX form factor and Liantec Tiny-Bus® Modular Expansion Solution, the ITX-6700 offers the Small Form Factor (SFF) industrial x86-based computing solution with embedded and flexible modular expansibility.

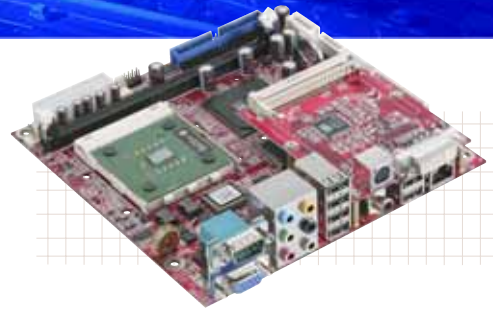
## Key Features

- AMD embedded Geode NX CPU with K7 x86 core with 266 MHz system bus, 128KB L1 / 256KB L2 cache, supports 3DNow!, MMX and SSE technology.
- AMD Geode NX1250 CPU with 667MHz and Geode NX1500 CPU with 1GHz supports fanless operating with 6 watt of power consumption typically.
- SiS embedded Eagle 741 platform with built-in Mirage 3D VGA core, BIOS selectable 8 to 64 MB shared video memory and MPEG-1/2 video decoder.
- Tiny-Bus® SiS video bridge module with LVDS or DVI and TV-out interfaces.
- Onboard 5.1 channel AC97 3D audio and Gigabit Ethernet interface.
- One PCI slot supports four bus master PCI bus interfaces.
- **Tiny-Bus® Modular Expansion Solution with 4x / 8x AGP bus interface, SiS video bridge 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-6700

## Mini-ITX AMD Embedded Geode NX EmBoard with VGA, Audio, Gbit Ethernet, SATA Optional LVDS, DVI, TV-out and Mini-PCI Tiny-Bus® Modular Expansion Solution



### Form Factor

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

### CPU

AMD embedded Geode NX CPU with K7 x86 core  
[AMD Geode NX1250 with 667MHz](#), [Geode NX1500 with 1GHz](#)  
Fanless operating with 6W of power consumption typically  
Optional AMD Geode NX1750 with 1.4GHz (need fan)

### Memory

One DDR DIMM supports 1GB DDR SDRAM

### Chipset

SiS embedded Eagle 741CX northbridge and 964 southbridge

### Watchdog Timer

Programmable system reset watchdog timer

### Serial ATA (SATA) and IDE (PATA) Port

40-pin primary and 44-pin secondary UltraATA100 IDE ports  
2 Serial-ATA (SATA) 150Mbps ports with RAID level 0/1

### 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  
AGP, SiS VB-based video bridge, and PCI bus interface](#)

### Video Interface

SiS Eagle 741CX chipset built-in Mirage VGA core  
External DB15 female VGA connector on rear I/O panel

### DVI and TV-out Interface (with TBM-15VB301)

TBM-15VB301 Tiny-Bus® SiS 301 video bridge module  
DVI interface supports up to 1600 x 1200 of resolution  
TV-out interface supports AV / S-Video with NTSC / PAL mode  
External DVI and AV / S-Video TV-out connector

### LVDS Interface (with TBM-15VB302)

TBM-15VB302 Tiny-Bus® SiS 302ELV video bridge module  
Supports dual 24-bit LVDS with 1920 x 1600 of resolution  
Onboard 40-pin Hirose DF13-40DP-1.25V LVDS connector

### Audio Interface

SiS 964 chipset with onboard ACL655 AC97 audio codec  
External 6 phone jack and S/P DIF RCA connector

### Ethernet Interface

Onboard PCI-based RTL8110SC 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 on TBM-15VB301 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-6700 supports Tiny-Bus® Modular Expansion Solution  
with AGP, SiS VB-based video bridge and PCI bus interface.

- [TBM-15VB301](#): SiS VB DVI, TV-out and Mini-PCI Module
- [TBM-15VB302](#): SiS VB LVDS 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 and further information about the Tiny-Bus®  
modules, please visit the website at <http://www.liantec.com>.

### Ordering Code

**ITX-6700L**: Mini-ITX AMD Embedded Geode NX EmBoard  
with VGA, Audio, Gbit Ethernet, SATA, and  
Tiny-Bus Modular Expansion Solution

**ITX-6700LDTP**: ITX-6700L with [TBM-15VB301](#) module  
[Supports DVI, TV-out and Mini-PCI Socket](#)

**ITX-6700LXP**: ITX-6700L with [TBM-15VB302](#) module  
[Supports LVDS and Mini-PCI Module](#)

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