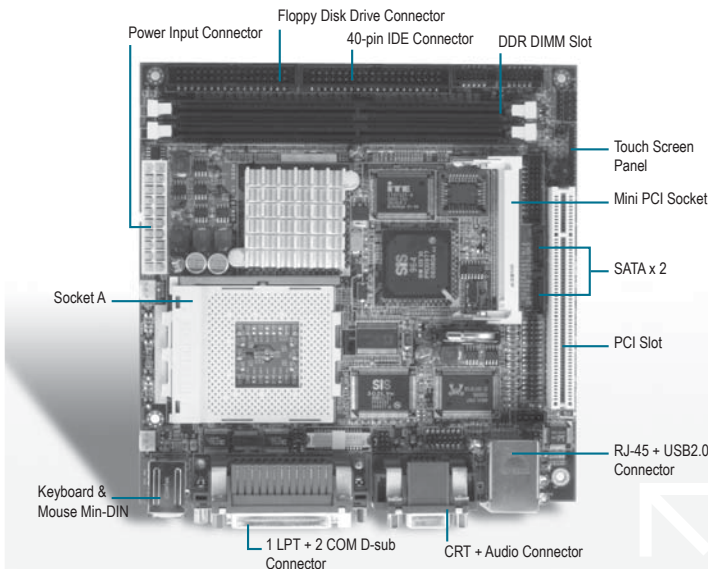


EMB-820T

AMD Geode™ NX Processors



Features

- AMD Geode™ NX1250/1500/1750 Processors
- CRT/ LVDS/ TV Display
- 10/100Base-TX or 10/100/1000Base-TX Ethernet
- AC 97 3D Surround 5.1 Channel Audio
- Type II CompactFlash™
- PCI x 1/ Mini PCI x 1
- COM x 4/ USB 2.0 x 8/ Digital I/O Ports
- 4/5/8 Wire Resistive Touch Screen Panel (Optional)



Specifications

System	
Form Factor	Mini-ITX
Processor	AMD Geode™ NX1250/1500/1750
System Memory	184-pin DDR DIMM x 2, Max. 2GB (DDR 266/333)
Chipset	SIS 741CX+964
I/O Chipset	ITE 8712KX + Fintek F81216D
Ethernet	Realtek 8110S, 1000 Base-TX or Realtek 8100C, 10/100 Base-TX RJ-45 Connector x 1
BIOS	AWARD 512KB FLASH ROM
Wake On LAN	Yes
Watchdog Timer	Generates a time-out system reset
H/W Status Monitoring	Supports power supply voltages, fan speed and temperature monitoring
Solid Storage Disk	Type II CompactFlash™ slot x 1
Expansion Interface	Mini PCI x 1, PCI x 1
Battery	Lithium battery
Power Requirement	AT/ATX
Power Consumption (Typical)	37 W (NX 1750)
Board Size	6.7"(L) x 6.7"(W) (170 mm x 170 mm)
Gross Weight	1.1 lb (0.5 kg)
Operating Temperature	32°F~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F~176°F (-40°C~80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	62,344
Display	
Supports CRT/LCD, CRT/TV simultaneous display Supports CRT/LCD, CRT/TV dual view	
Chipset	SIS 741CX
Memory	Shared memory up to 128MB
Resolutions	Up to 1600 x 1200 @ 32bpp colors for CRT & LCD
LCD Interface	Up to 18-bit dual channel LVDS TFT LCD
TV-Out	Supports NTSC and PAL standard
Touch Screen	Supports 4/5/8 Wire Resistive Touch Screen Panel (Optional)
I/O	
MIO	UDMA100/133 x 1, SATA x 2, Floppy Disk Drive x 1, PS/2 Keyboard x 1, PS/2 Mouse x 1, RS-232 x 3, RS-232/422/485 x 1, Parallel x 1
IrDA	One IrDA Tx/Rx header
Audio	MIC-in, Line-in, Line-out or 5.1 channel output
USB	One dual Type-A connector supports 2 USB 2.0 ports (External) Three 5x2 pin headers support 6 USB 2.0 ports (Internal)
Digital I/O	Supports 8-bit (programmable)

Packing list

- **1701400453**
40-pin ATA 100 Cable
- **1709100201**
USB Cable
- **1701100207**
COM Port Cable
- **1701340700**
FDD Cable
- **1700080180**
TV-out Cable
- **1700140164**
Audio Cable
- **M20852T000**
Metal I/O Bracket
- **P90657B000**
CompactFlash Cover
- **9657666600**
Jumper Cap
- **Quick Installation Guide**
- **Utility CD**
- **EMB-820T**

Ordering Information

- **TF-EMB-820T-A10**
Mini-ITX, Socket A, LCD, DDR, GbE, Audio, 4 COM, USB2.0, CF, Mini PCI, AT/ATX, Rev. A1.0
- **TF-EMB-820T-A10-01**
Mini-ITX, Socket A, LCD, DDR, LAN, Audio, 4 COM, USB2.0, CF, Mini PCI, AT/ATX, Rev. A1.0

Optional Accessories

- **1702200201**
Conversion Cable for ATX to AT Power Supply
- **TF-PER-C10L-A10**
Mini PCI 10/100 Base-TX Ethernet Module with Realtek 8100C
- **TF-PER-C10L-A10-01**
Mini PCI 10/100/1000 Base-TX Ethernet Module with Realtek 8110S
- **TF-PER-C10L-A10-02**
Mini PCI 10/100 Base-TX Ethernet Module with Intel® 82551QM
- **TF-PER-C10L-A10-03**
Mini PCI 10/100/1000 Base-TX Ethernet Module with Intel® 82541GI
- **TF-PER-C20S-A10**
Mini PCI 2-port SATA Module Rev. A1.0
- **TF-PER-C30F-A10**
Mini PCI 3-port IEEE 1394a Module
- **TF-PER-V30C-A10**
Mini PCI Single Channel Capture Module with Philips SAA7135
- **TF-PER-C40C-A10**
Mini PCI 2-port RS-232 Module Rev. A1.0
- **TF-PER-C40C-A10-01**
Mini PCI 4-port RS-232 Module Rev. A1.0
- **TF-PER-1110-A10-01**
Riser Card for PCI, 2-slot