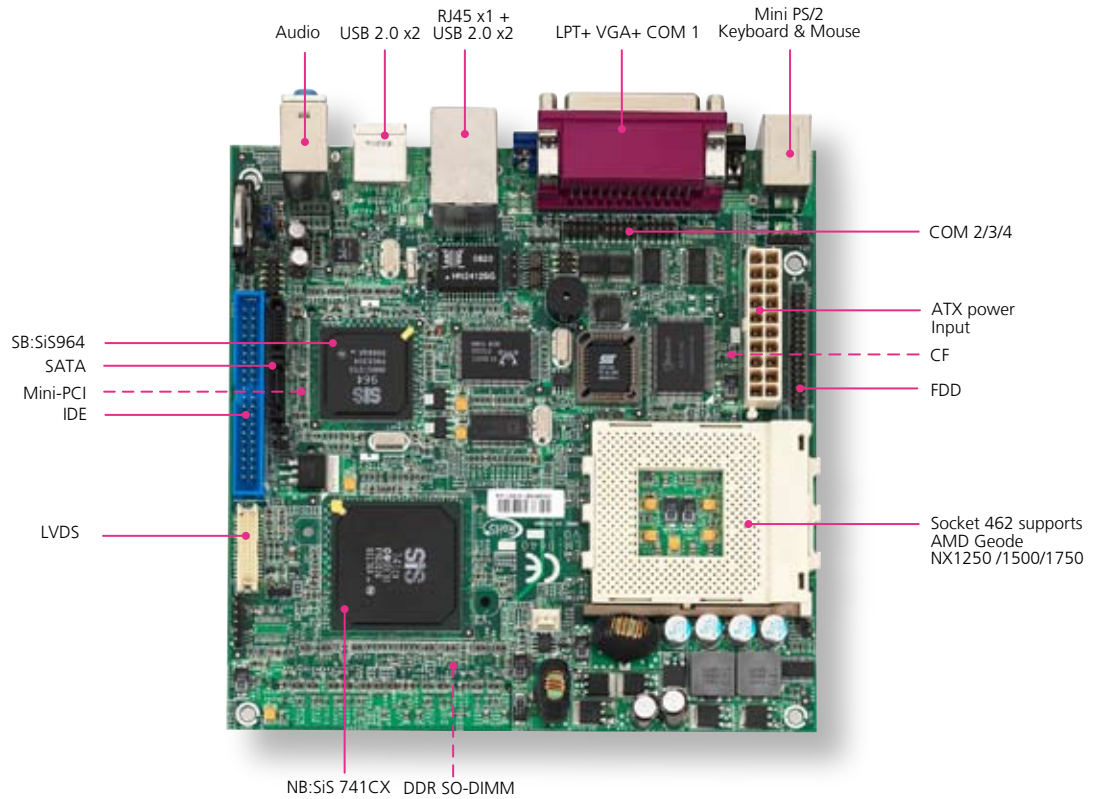


# EM-9640

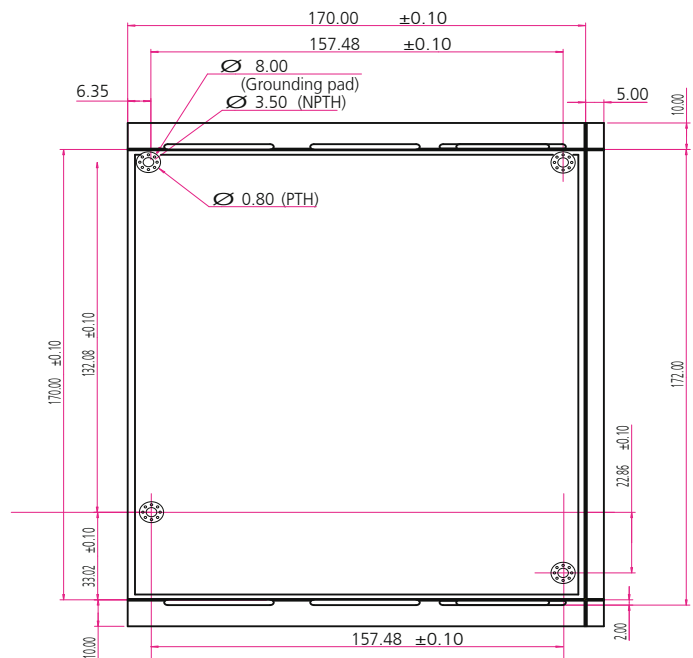
Mini-ITX AMD® Geode NX with VGA/ SATA/ LAN/ USB/ COM/ Audio/ LPT/ LVDS/ CF/ Mini-PCI

- VGA
- SATA
- COM
- LAN
- USB
- AUDIO
- LPT
- LVDS
- CF
- Mini-PCI



## FEATURES

- Support AMD Geode NX Series CPU
- SiS741CX/SiS964 chipset
- One SO-DIMM up to 1 GB DDR 333 SDRAM
- VGA, LCD, 2-CH LVDS
- Realtek RTL8110 10/100/1000 Mbps LAN
- 1 Mini-PCI, Type III CF
- 4 COM, LPT, IrDA, 4 USB 2.0, 2 SATA, DIO
- Mini ITX form factor

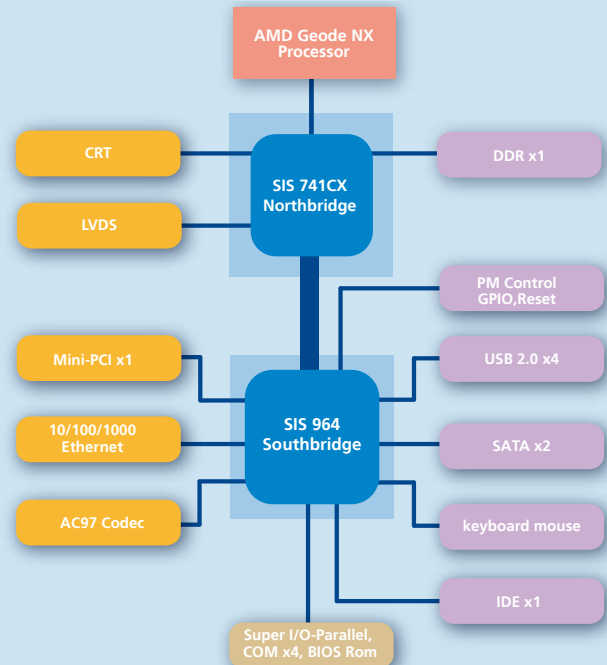


FEATURE	DESCRIPTION		
<b>Platform</b>	Form Factor	Mini-ITX	
	Processor	Supports AMD Geode™ socket A (Socket 462) NX1250/ NX1500/ NX1750 processor	
	Chipset	SiS741CX + SiS964	
	BIOS	Award Flash BIOS	
	Cache Memory	Processor Built-in	
<b>System Memory</b>	Technology	DDR 333 SDRAM	
	Max Capacity	1GB	
	Socket	200-pin SO-DIMM x1	
<b>Storage Interface</b>	Hard Drive Interface	IDE x1, Serial ATA X2	
	SSD (CF Socket)	CompactFlash /II x1	
<b>Networking</b>	Speed	10/100/1000Mbps	
	I/O	RJ45 x1	
	Controller	Realtek RTL8110SC-GR, supports Wake-on-LAN & PXE	
<b>Display</b>	Controller	Integrated AGP8X with 2D/3D Graphics Accelerator and MPEG-2/1 Video Decoder	
	Shared memory	Programmable shared frame buffer size 32MB or 64MB for display memory	
	Output	VGA DB15 output, dual channel LVDS	
<b>Audio</b>	Codec	Realtek ALC655 with AC97 codec V2.3	
	I/O	Mic-in, Line-in, Line-out	
<b>I/O Interface</b>	Floppy Drive Interface	FDD header 2.0mm x 1	
	Serial Port	RS-232 x3, RS-232/422/485 x1	
	Parallel Port	1	
	Universal Serial Bus	4 (v2.0)	
	Serial-ATA	2	
	Digital I/O	4 x TTL input , 4 x TTL output	
	Bus interface	PCI /ISA	
	IR Interface	115k bps, IrDA 1.0 compliant with pin-header connector	
	Keyboard	Mini-DIN PS/2	
	Mouse	Mini-DIN PS/2	
	<b>Hardware Monitoring</b>	Controller	Winbond W83697HG, CPU temperature, voltage and FAN monitoring
		RTC	RTC with Li-Battery
Watchdog timer		256-level time-out intervals	
<b>Cooling</b>	Heatsink & Fan		
<b>Expansion</b>	Mini-PCI x1		
<b>Environmental Parameters</b>	Temperature, ambient operating	0~60°C (32~140°F)	
	Humidity (RH), ambient operating	0%~90% relative humidity, non-condensing	
	Storage Temperature	-20~70°C (-4~158°F)	
<b>Physical Dimensions</b>	Dimensions	170 mm x 170 mm (6.69" x 6.69" )	
<b>Power</b>	Input	20-pin ATX Power connector	
	Form Factor	ATX support	
<b>Compliance</b>	CE, FCC, RoHS		

## ORDERING INFORMATION

<b>EM-9640A</b>	AMD Geode NX 1250@6W (667MHz) Fanless
<b>EM-9640B</b>	AMD Geode NX 1500@6W (1.0GHz) Fanless
<b>EM-9640C</b>	AMD Geode NX 1750@14W (1.4GHz) with cooling Fan

## PLATFORM ARCHITECTURE



### About Lanner

Founded in 1986 and publicly listed (TAIEX 6245) since 2003, Lanner Electronics Inc. is an ISO 9001 certified designer and manufacturer of reliable, frontline security, storage and applied computing platforms and solutions. With headquarters in Taipei, Taiwan and branches in the U.S., India, and China, Lanner is uniquely positioned to deliver custom technical solutions with localized, value-added service.

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