

Mainboard Diagram



J7F3 Mini-ITX Motherboard Series

- SiS 741CX Northbridge + SiS 964 Southbridge Chipsets
- Support Socket-462 AMD Geode NX processor
- Support Front Side Bus 133MHz
- Single Channel DDR2 400 Memory DIMM
- Support 2 Serial ATA Devices with RAID 0, 1
- Support 2xAD Connector With Expansion Daughter-boards
- Ethernet LAN Supported
- AC'97 6 Channel Audio CODEC
- VIA VT6307S IEEE1394a Controller for J7F3E
- 17 x 17CM Mini-ITX Form Factor



Features and Benefits

Support Socket 462 AMD Geode™ NX Processor

The AMD Geode™ NX processor family gives product designers a wide range of options in low-power, high-performance processors. Based on Mobile AMD Athlon™ processor technology, AMD NX processors deliver superior computing performance for applications including thin-client, point-of-sale terminals, kiosks, high-end printers, and home media systems. AMD Geode Solutions have received new model numbers to better reflect total performance beyond just megahertz. This presentation of attributes gives designers greater understanding of the capabilities of AMD Geode Solutions.

SiS 741CX Northbridge Chipset and SiS964 Southbridge Chipset

The SiS741CX chipset can be combined with three different AMD Geode NX processors, including the AMD Geode™ NX 1250@6W processor*, AMD Geode™ NX 1500@6W processor** and AMD Geode™ NX 1750@14W processor***, enabling development of a wider variety of products for different market segments. The SiS741CX chipset supports the AMD Geode NX processor family, DDR266 front side bus, as well as high-speed DDR333 DRAM. Furthermore, the SiS741CX chipset incorporates SiS's revolutionary HyperStreaming™ Technology, which provides multiple divided pipelines for data, allows data to be sent concurrently, and separates data for easier memory retrieval, resulting in a remarkable reduction in latency versus traditional chipsets.

SiS964 / SiS963L will be coupled with SiS741CX as the south bridge chipset, which integrates with Serial ATA high-speed transfer interface. The SiS964 / SiS963L supports Dual-Channel parallel ATA, 8 built-in USB2.0 ports, full 5.1 channel surround sound, V.90 modem and Ethernet network.

Targets at High Growth Markets: Digital Home / Digital Office / Digital World

- Personal electronics such as personal video recorders (PVR), set top boxes, home theatres, digital audio centers, etc.
- Mini PCs / Green clients / Quiet desktop PCs / High density servers
- Home server appliances / Public information/entertainment kiosks / Point-of-Sales systems / Intelligent displays / Edge networking devices / Hospital monitoring systems / Municipal control & monitoring systems

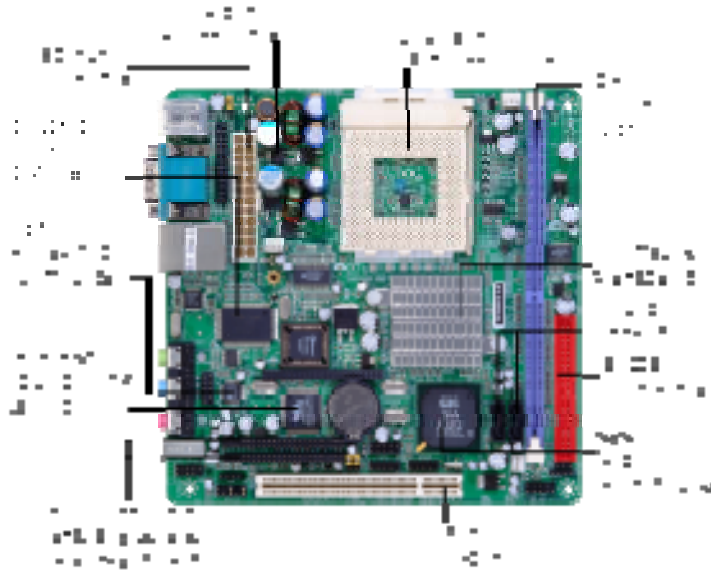
Rear I / O



J7F2 ITX Motherboard Series



J7F2WE ITX Motherboard Series



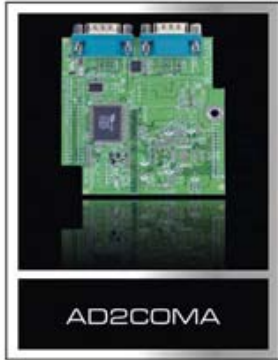
Mainboard Specifications

■ CPU	<ul style="list-style-type: none"> ■ Support Socket-462 AMD Geode™ NX Processor @ FSB 133MHz ■ Support AMD Geode™ NX 1250 / 1500 / 1750 Series and Low Voltage Edition Included
■ Chipset	■ SiS 741CX North Bridge Chipset + SiS 964 South Bridge Chipset
■ Memory	■ 1 * 184-pin DIMM Sockets for unbuffered DDR 333 / 266 SDRAM up to 1 GB
■ Expansion Slots	■ 1 * 32-bit PCI Slot / 1 * 2xAD Connector With Expansion Daughter Boards
■ Storage	<ul style="list-style-type: none"> ■ 2 * Ultra DMA 133 / 100 / 66 IDE Devices Support ■ Embedded SiS 964 South Bridge Chipset Supports 2 Serial ATA HDDs with RAID 0, 1 Function.
■ Audio	■ Realtek ALC655 6-Channel AC 97' Audio CODEC
■ Ethernet LAN	■ Realtek RT8201CL 10 / 100 PCI LAN PHY
■ USB	■ Embedded 8 * High Speed USB @ 480 Mbit / s
■ Special Features	<ul style="list-style-type: none"> ■ Advanced Power Design that supports Socket-A AMD Geode™ NX Processor ■ 2xAD Connector With Expansion Daughter Boards
■ Rear Panel I / O	<ul style="list-style-type: none"> ■ 2 * High Speed USB Connectors @ 480 Mbit / s ■ 1 * Serial Port / 1 * D-Sub 15-pin VGA Connector ■ 1 * PS / 2 Mouse & 1 * PS/2 Keyboard / 1 * RJ45 Connector / 1 * Audio I / O ■ 1 * IEEE 1394a Connector for J7F3E ITX motherboards
■ Internal I / O	<ul style="list-style-type: none"> ■ 3 * High Speed USB Connectors @ 480 Mbit / s for 6 USB 2.0 Ports ■ CPU / Chassis Fan Connectors / 26-pin Parallel Connector / 9-Pin COM2 Conector ■ 1 * 12V 4-pin ATX Power Connector and 1 * 24-pin ATX Power Connector ■ CD / AUX Audio in & SPEAK Out ■ 1 * 9-Pin IEEE 1394a Connector for J7F3E ITX motherboards
■ BIOS	■ Award 4 MB Flash ROM
■ Form Factor	■ Mini-ITX Form Factor (17x17CM)

Expansion Daughter-boards (optional)



AD2COM



AD2COMA

For 2xCOM Ports Added



ADPCM

Card Bus Type I + II Supported Expansion Interface With CF Compatible Card Reader



ADSDVC

-Extended D-Sub 15-pin and DVI Connectors
-SiS 301 controller Supports both analog D-Sub 15-pin and DVI digital video signal Output



ADSLVT

-LVDS Panel Controller and DVI Connector
-VIA VT6136 Support LVDS signal for LVDS Panel
-VIA VT6132A Support DVI digital video signal Output



AD4COM

For 4xCOM Port Added



ADCF

IDE Interface Supported CF Compatible Disk On Module



AD1RTLAN-G/
AD1RTLAN-P



AD3RTLAN-G/
AD3RTLAN-P

For 2nd or 2nd, 3th, 4th 10/100 or 10/100/1000 Ethernet LAN



AD12VB

12V Mini-ITX Power supply
- 60Watt DC-DC power supply
- ATX standard compliant
- 12V operation
- 100% silent, small footprint

