



SHUTTLE INC.

MARKETING SPEC. Model: MS53(N)

DOC NO : QMD-MS53

VERSION : 0.1

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DATE : May. 20, 2002

Product Name: Shuttle MS53(N)

Form Factor: Micro ATX

CPU Support: Socket 478

- Intel Pentium 4 / Celeron in the 478 pin package with 400/533MHz FSB

Chipsets:

(North) SiS 645DX

- Supports Intel® Pentium® 4 processor system bus at 100/133 MHz (400/533 MHz Data Bus)
- 2 Unbuffered DIMM of PC 1600/2100/2700 compliant DDR SDRAM up to 2 GB memory capacity
- AGP interface to support external AGP2.0 compliant device
- High Throughput SiS MuTIOL connect to SiS961 MuTIOL Media I/O to perform 533MB/s bandwidth

(South) SiS961

- Built in AC97 Controller
- Support UDMA 33/66/100 IDE interface
- Integrated 2 USB 1.1 compliant host controller to support up to 6 USB ports
- Support ACPI 1.0b compliant power management
- Built in RTC (Real Time Clock)
- PCI interface supports PCI 2.2 compliant device

Memory: 2 x 184-pin DIMM

- Supports 4 banks up to 2 GB PC1600/2100/2700 compliant DDR SDRAM

Audio: 4 channel audio

- C-Media 9738 on board
- Compliant with AC'97 2.2 specifications
- 4 channel slot selectable DAC output for multi-channel applications
- 3D Stereo enhancement

Expansion Slot: 1 x AGP 2.0 compliant slot



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- Support external AGP V2.0 compliant VGA device
- Support both 1.5/3.3V external AGP card
- Support 1X, 2X, 4X AGP data transfer
 - 3 x PCI slots
- PCI 2.2 compliant, 32-bit BUS Master Slots
- 133 Mbyte / sec maximum throughput
 - 1 x CNR slots

IDE interface: Built in SiS 961

- 2 x UltraDMA/100 Bus Master IDE from SiS961
- 80-pin Cable Backward Compatible Legacy ATAPI Devices
- ATAPI IDE CD-ROM, CD-R, CD-RW, and LS-120 Supports

LPC I/O: ITE 8705F

- Comply with Intel Low Pin Count Interface Specification Rev. 1.0
- ACPI V. 1.0 compliant
- Built in H/W monitor feature
- Two 16C550 UARTs
 - Supports two standard Serial Ports
 - Supports IrDA 1.0/ASKIR protocols
 - Supports Smart Card Reader protocols
- Built in Smart Card Reader
- IEEE 1284 Parallel Port
 - Standard mode -- Bi-directional SPP compliant
 - Enhanced mode -- EPP V. 1.7 and V. 1.9 compliant
 - High speed mode -- ECP, IEEE 1284 compliant
- Floppy Disk Controller
 - Supports two 360K/ 720K/ 1.2M/ 1.44M/ 2.88M floppy disk drives
 - Enhanced digital data separator
 - 3-Mode drives supported
- Game Port
- Dedicated MIDI Interface
- Support power-failure resume and power button de-bounce

10/100 Fast Ethernet: On board Realtek 8100B (**MS53N Only**)

H/W Monitoring: Built in ITE 8705F

- 2 thermal inputs from remote thermal resistor to monitor system



temperature

- 1 thermal inputs from thermal diode to monitor CPU temperature
- 8 voltage monitor inputs
- 1 chassis intrusion input
- Monitors 3 fan tachometer inputs
- Smart Guardian Controller to provide programmable fan speed automatic control

Power Management:

- APM 1.2 compliant
- ACPI 1.0 compliant
 - Support multiple system suspend types- suspend to DRAM, suspend to disk, and all with hardware automatic wake-up

Bios: Award PnP BIOS

- Stored in 2 Mb flash memory
- DMI 2.3
- Bootable from Floppy, ATAPI device, USB device, SCSI device

On Board Ports / Connectors / Jumpers / Headers (front/back panel):

Ports:

Back Panel:

- 1 Serial Port
- 1 VGA Port
- 1 Parallel Port (SPP, EPP, ECP)
- 1 PS/2 Keyboard Port
- 1 PS/2 Mouse Port
- 2 USB Ports
- 1 LAN Port (**MS53N Only**)
- 1 Game / MIDI Port
- 1 Line in, 1x Line out, 1x Mic

Connectors:

- 1 x ATX power connector
- 1 x Serial Port connector
- 3 x Fan Power connectors
- 2 x UltraDMA/100 Bus Master IDE



- 1 x Floppy

Jumpers:

- Clear CMOS
- BIOS Boot block protection

Headers:

- 2 sets of 2 x5 pin Front Panel USB header
- Mini CD Audio in
- CD Audio in

Other Features:

- Suspend switch and LED

Accessory:

- SIS IDE Driver
- SIS AGP driver
- Realtek LAN driver
- C-Media Audio driver
- User manuals in PDF format

CD-ROM Disk:

- IDE Cable:
 - 1 x ATA 100/66 cable
- Floppy Cable:
 - 1 x Floppy cable
- User manual:
 - 1 printed user manual
 - Chipset heat sink, CPU RM