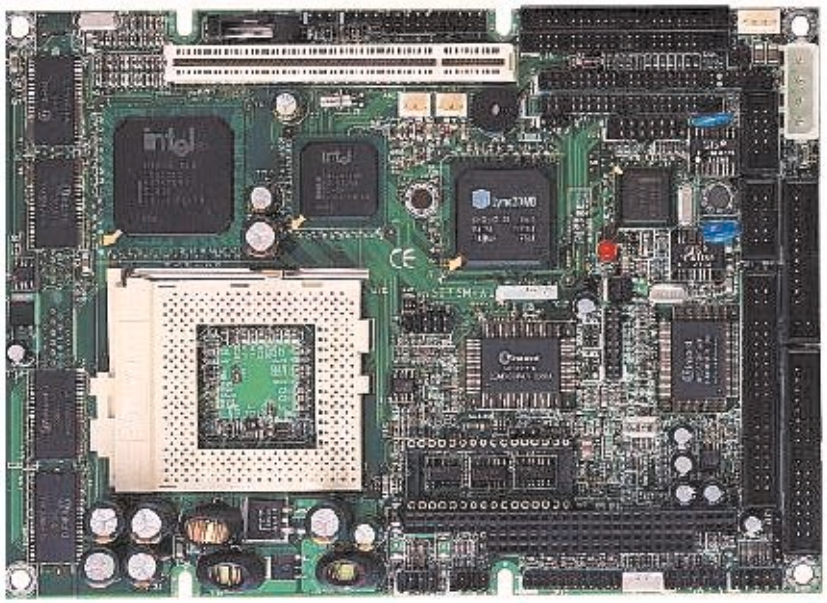
MUNG0540

High performance embedded SBC

- **MUNG0540: One of the world's highest performance 5.25-inch cards. Based on Intel® 815 EP, it offers up to 1GHz Pentium® III CPU performance.**



One of the world's highest performance embedded cards

The MUNG0540 also provides high performance graphics and dual LAN function for higher efficiency. The EBX size SBC features a 64-bit Intel Pentium III processor with on-die 256k L2 pipelined burst cache (full CPU core speed, ECC capable).

It supports up to 256MB memory and high performance PCI Ultra DMA33/66/100 IDE device. This embedded card uses an SMI 721 chip, which simultaneously offers TFT LCD or CRT display. Onboard support for four Universal Serial Bus (USB) ports, two serial/parallel ports and a floppy interface. This dual LAN embedded SBC also comes with the function of ICH2 LAN and Intel 82559 10/100Mbps LAN chip.

- **Intel Pentium III processor**
- **Up to 256MB SDRAM**
- **PCI Ultra DMA 33/66/100 IDE support**
- **Lynx 3DM for LCD & CRT support**
- **AC'97 CODEC support**
- **Dual LAN support**
- **Dual I/O support**

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MUNG0540 - Technical Specifications

CPU
- Intel® Pentium® III processor
- 500MHz to 1GHz with 256k L2 cache in FCPGA370 package

Dimensions (H x D)
- 5.75 x 8-inch (146.1 x 203.2mm) embedded SBC

Chipset
- Intel 815EP and ICH2

Bus Interface
- Front Side Bus (100/133MHz)
- AGP bus
- PCI Bus (33MHz)
- ISA Bus (8.33MHz)

Memory
- One 168-pin latching DIMM socket, 72-bit
- Up to 256MB with 2, 4, 8, 16 or 32M x 72
- 100/133MHz SDRAM/Registered SDRAM with ECC mode

Data Path
- Data path 64-bit on CPU and video memory bus
- 32-bit on PCI bus, 16-bit on ISA bus

Flash Memory
- 4M for BIOS field upgrade
- 4k serial EEPROM for user configuration I/O

I/O
- 1.Winbond PCI to ISA bridge and I/O chip
- Winbond 82628+ Winbond 83629/ Winbond 83627HF+
- Winbond 83877TTF low pin count

USB Ports
- Four (Ver1.1)

Serial Ports
- Four 16550 UART compatible ports with COM1/COM3/COM4 as RS-232 and COM2 as RS-232/RS-422/RS-485

Parallel Port
- One high-speed parallel port, SPP/EPP/ECP mode

Floppy Disk
- Support for two floppy drives

EIDE
- Four EIDE drivers, support PIO Mode 4 or Ultra DMA33/66/100

Ethernet
- ICH2+82562ET 10/100, Intel 82559 10/100Mbps LAN chip Ethernet support

SSD Interface
- One DOC socket to support SSD size up to 288MB
- One PC/104 connector support ISA bus

VGA Display
- Accelerated graphics port 64-bit CRT/flat panel controller runs in internal graphics mode with SMI721 chip
- TFT/CRT panels drive with resolution up to 1280 x 1024 x 8 pixels

Clock/Calendar
- Real-time clock with 256-byte battery backup
- CMOS RAM

BIOS
- Award BIOS in Boot Block Flash with emergency recovery code; save CMOS in Flash option
- Auto configuration, extended setup
- Plug-n-Play tables setup console redirection to serial port (VT100 mode) with CMOS setup
- Access diskless, keyboardless and videoless operation extensions
- System and BIOS shadowing
- Programmable bus & I/O speeds and memory wait states CC00-E000 address blocking
- Advanced Power Management (APM 1.2, SMI/SMM/ACPI) support with programmable resume by alarm and wake-up events

Supervisory
- Watchdog timer (0 to 254.5 sec/min. typical)
- Power failure/low battery detector

Reliability
- Mouse/keyboard voltage protected by self-resetting fuses
- 6hrs 45 °C dynamic burn-in

Power Requirements Supply Voltage
- Vcc = +5V ±12V

Vcore
- 1.3 to 2.05V

Environmental
Operating Temperature
- 0 ° to 60 °C (32 ° to 140 °F)

Non-Operating Temperature
- -25 ° to 65 °C (-13 ° to 149 °F)

Humidity
- 5% to 95% RNC

EMI
- CE Certified
- FCC Certified
- FCC Class A

OS Support
- DOS/Windows®95/98/2000/NT 4.0/Me and Linux®

Support
- Superior pre- and post sales technical support
- Two year limited warranty

Ordering Guide
MUNG0540
- 815E Socket 370 Pentium III with dual 10/100 Ethernet

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