

Blue Chip Technology



MAGNUM

Single Board Computer

MAGNUM

- Ultra low power 300MHz Celeron or low power 700MHz Pentium® III CPU
- Up to 512MB SDRAM
- SST ATA-Disk Chip and Compact Flash support
- Integrated AGP (x4) S3 Savage for LCD, CRT and PDP
- Hardware Accelerated MPEG2/DVD decoding
- 10/100Base-T Ethernet
- Soundblaster™ compatible Audio
- Integrated hardware monitor
- ATA 100/66/33 EIDE HDD
- PC/104+ (PCI) expansion (optional)
- 16 Digital I/O channels
- 4 USB channels
- Dual FDD
- 2 RS232 Serial ports
- Bi-directional EPP/ECP parallel port
- Real-time clock with on-board battery
- Watchdog timer
- PS/2 Keyboard and Mouse

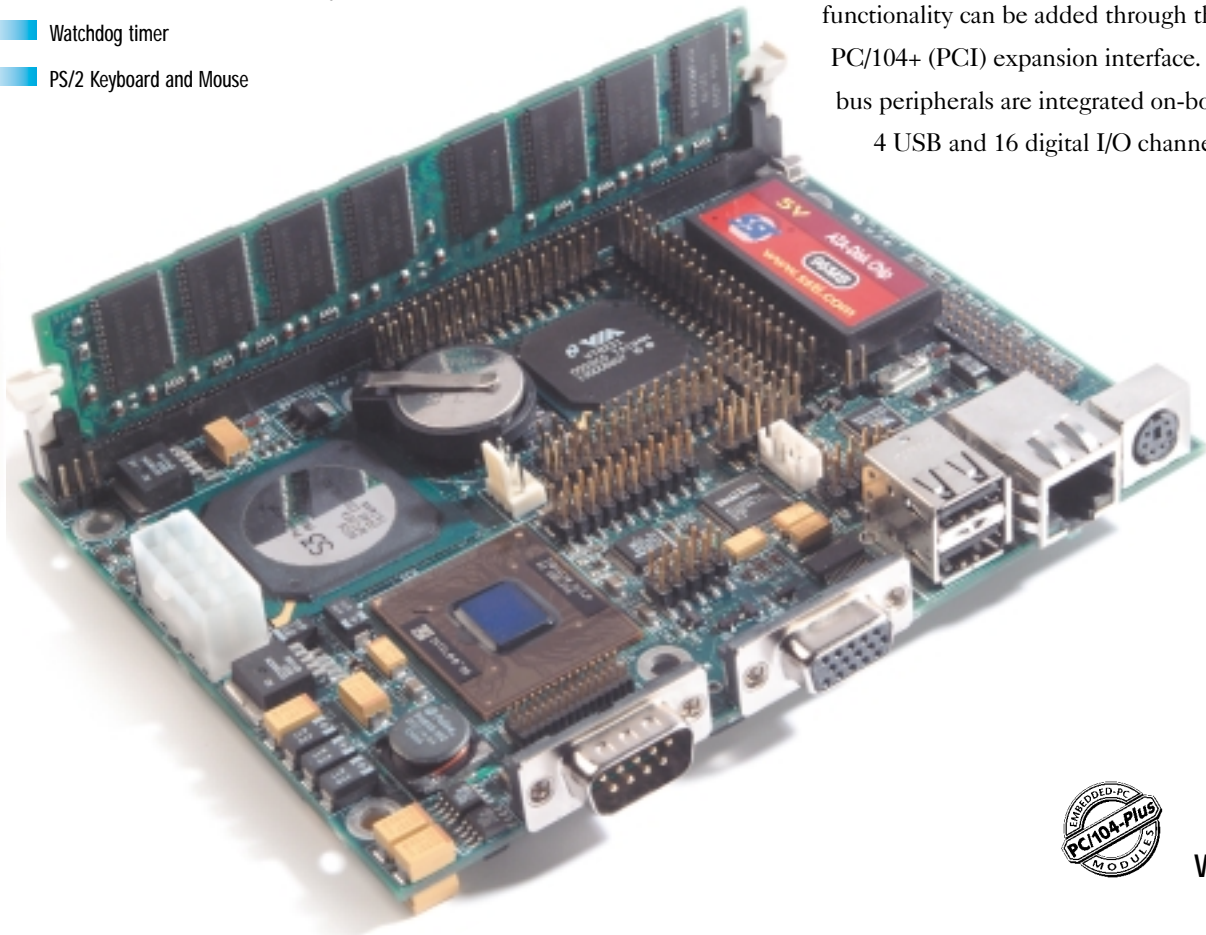
Pentium® III 3½" format Single Board Computer for High Performance Multimedia Applications

Blue Chip Technology's MAGNUM is a highly integrated Pentium® III based single board computer in a 3½" format. Combining high performance graphics, ethernet and audio, it is an ideal platform for space constrained yet demanding multimedia applications.

Based on the Via PN133T chipset, MAGNUM is available with either a low power Pentium® III 700MHz CPU or an ultra low power 300MHz Celeron, the latter ideal for applications which require both high performance and low power consumption. The Pentium® III CPU includes 256KB L2 Cache and the Celeron option includes 128KB L2 Cache. There are SDRAM options ranging from 16MB to 512MB, and for applications requiring solid state disk, both SST ATA-Disk Chip and Compact Flash are supported.

The integrated S3 Savage 4 AGP (x4) Graphics controller supports a wide variety of CRT, LCD and Plasma resolutions.

Other on-board features include 10/100Base-T Ethernet, Audio and MPEG2/DVD playback. Further functionality can be added through the optional PC/104+ (PCI) expansion interface. Standard ISA bus peripherals are integrated on-board along with 4 USB and 16 digital I/O channels.



3
YEAR
WARRANTY



Blue Chip Technology

MAGNUM Single Board Computer

MAGNUM

Pentium® III 3½" format Single Board Computer for High Performance Multimedia Applications

TECHNICAL SPECIFICATION

PROCESSORS SUPPORTED & SPEED

Intel low power BGA CPU
300MHz Celeron or Pentium® III
700MHz CPU options

MAIN CHIP SET

Via PN133T Chipset

SDRAM

16MB to 512MB via one 168 pin
DIMM
Support for parity memory

CACHE (L2)

128KB integrated in 300MHz
Celeron
256KB integrated in 700MHz
Pentium® III

FLASH MEMORY

SST ATA Disk Chip
Compact Flash via EIDE channel

BIOS

Phoenix BIOS
Ethernet Boot Rom option
Customer Splash screen option

VIDEO

Integrated AGP (x4) S3 Savage 4
Supports CRT, LCD and PDP 4:3
Resolutions to 1600 x 1200*
3.3V and 5V panel power support
BIOS set up for LCD panels
Hardware Accelerated
MPEG2/DVD decoding
36 bit LCD interface for DSTN and
TFT

* Full list of supported display
modes available on request.

ETHERNET

Integrated 10/100Base-T
Wake On Lan option
Boot ROM option

AUDIO

Integrated Soundblaster™
compatible AC97
Line In/Out, Microphone and CD
in

HARDWARE MONITOR

CPU Core Logic
3V3, 5V and 12V Voltage Monitors
2 Fan Monitors
1 x External Thermister for remote
thermal monitoring
CPU On die thermal diode monitor

HARD DISK

ATA 100/66/33 EIDE HDD
Dual drives, single connector

FLOPPY DISK

Floppy Disk Controller for 2 FDD
to 2.88MB

DIGITAL I/O

16 Channels

BUS INTERFACE

PCI Local Bus Interface (version
2.2 compliant) via PC/104+

REAL TIME CLOCK

Battery backed via on-board
Lithium coin cell

WATCHDOG

Software enabled/disabled

SERIAL PORTS

2 x RS232

PARALLEL PORT

1 x Enhanced Bi-Directional
EPP/ECP

USB

4 USB Channels Version 1.x Compliant

KEYBOARD PORT

PS/2 compatible

MOUSE PORT

PS/2 compatible

RESET PORT

Via I/O port or reset switch

PERIPHERALS HEADER

Speaker, reset switch, power switch,
HDD activity led, suspend switch
and external battery

BATTERY

On-board 3 Volt Lithium coin cell
Supports Real Time Clock and
CMOS RAM
Field replaceable

BOARD DIMENSIONS

146mm x 111mm

MOUNTING

Via 6 x 3mm holes

ENVIRONMENTAL

Temperature 0°C to 55°C
Operational
-25°C to 85°C Storage
Non-condensing Relative Humidity
10% to 90%

POWER MANAGEMENT

Standby and suspend modes

SUPPLY VOLTAGE

Reduced ATX Power Connector
On-board switching regulators for
low voltage devices

EMC

Compliant with EN55022 (A) and
EN50082-2

OPERATING SYSTEMS

MS-DOS
Windows 98, ME 2000, NT, XP,
Windows XP Embedded
Please call for details of Real Time
Operating Systems supported

WARRANTY

3 years

DEVELOPMENT KITS

*MAGNUM pre-installed with
Operating System, PSU and mains
cable, Mouse, All interface cables,
Software and Documentation on
CD, TFT Flat Panel Display
(optional), Touchscreen (optional),
Carrying case.*

* Please call for details of operating
systems

CPU OPTIONS

300MHz Celeron
700MHz Pentium®III



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