

Blue Chip
MICRON



Technology

Single Board Computer

MICRON
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- Low power 200MHz (PR266) or 250MHz (PR366) CPU options
- Up to 256MB SDRAM
- SST ATA-Disk Chip and CompactFlash support
- Integrated AGP (x2) Trident CyberBlade Graphics for LCD and CRT
- 10/100Base-T Ethernet
- Soundblaster™ compatible Audio (optional)
- ATA 100/66/33 EIDE HDD
- PC/104 (ISA) and PC/104+ (PCI) expansion
- 4 Digital I/O channels
- Dual USB
- 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

Low power, high performance Pentium® class PC/104 and PC/104+ SBC with CRT/LCD, Ethernet, Audio, USB, Digital I/O

Blue Chip Technology's MICRON is a Pentium® class PC/104 form factor single board computer that combines high performance graphics, ethernet, USB and a host of other functions. It is an ideal platform for demanding embedded applications with both PCI (PC/104+) and ISA (PC/104) bus interfaces.

MICRON is available with either a 366MHz or a 266MHz performance rated CPU, the latter ideal for applications where low power consumption is important. There are SDRAM options ranging from 64MB to 256MB, and for applications requiring solid state disk, both SST ATA-Disk Chip and CompactFlash are supported.

The integrated Trident CyberBlade AGP (x2) Graphics controller provides CRT resolutions up to 1600 x 1200 and LCD resolutions up to 1024 x 768. MICRON also supports Audio and 10/100Base-T Ethernet.

MICRON has a very high performance EIDE interface operating at up to UDMA 100, supports dual FDD and has 128bytes of EEPROM. There are also 4 digital I/O channels, dual USB, two serial ports, parallel port, watchdog and a battery backed real time clock.

In order to speed up application development, MICRON development kits are available for many of the popular embedded operating systems such as ROM DOS, Windows CE® and Windows NT® Embedded.



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Low power, high performance Pentium® class PC/104 and PC/104+ SBC with CRT/LCD, Ethernet, Audio, USB, Digital I/O

TECHNICAL SPECIFICATION

PROCESSORS SUPPORTED & SPEED

RiSE™ mP6™ low power Pentium® class BGA CPU
200MHz (PR266) and 250MHz (PR366) CPU options

MAIN CHIP SET

North Bridge - Trident Cyberblade i7
South Bridge - Via VT686B

SDRAM

64MB to 256MB via one 144 pin, 3.3V SODIMM

FLASH MEMORY

SST ATA-Disk Chip
CompactFlash via EIDE channel or USB

EEPROM

128bytes

BIOS

Phoenix BIOS
Customer Splash screen option

VIDEO

Integrated AGP (x2) Trident CyberBlade
CRT resolutions to 1600 x 1200
LCD resolutions to 1024 x 768
3.3V and 5V panel power support
BIOS set up for LCD panels

ETHERNET

Intel 82559ER 10/100Base-T

AUDIO

Soundblaster™ compatible AC97 V2.1 18 bit stereo codec (optional)

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

4 Channels
(3 input/output 1 output only)

BUS INTERFACE

ISA Bus interface via PC/104 16 bit interface
PCI Local Bus Interface (version 2.2 compliant) via PC/104+

REAL TIME CLOCK

Battery backed via on-board Lithium cell

WATCHDOG

Software enabled/disabled

SERIAL PORTS

2 x RS232
IrDA option

PARALLEL PORT

1 x Enhanced Bi-Directional EPP/ECP

USB

Dual USB Version 1.1 Compliant

KEYBOARD PORT

PS/2 compatible

MOUSE PORT

PS/2 compatible

RESET PORT

Via Watchdog or reset switch

BATTERY

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

BOARD DIMENSIONS

115mm x 96mm (this includes the connector areas as defined by the PC/104 standard)

MOUNTING

Via 4 x 3.5mm holes

ENVIRONMENTAL

0°C to 60°C Operational temp
-25°C to 85°C Storage temp
Non-condensing Relative Humidity 10% to 90%

POWER MANAGEMENT

Standby and suspend modes

SUPPLY VOLTAGE

+5 Volts for true embedded applications
On-board switching regulators for low voltage devices

EMC

Compliant with EN55022 (A) and EN50082-2

OPERATING SYSTEMS

MS-DOS
Windows 98, Me, NT, 2000
Windows CE, Windows NTc
Please call for details of Real Time Operating Systems supported

WARRANTY

3 years

DEVELOPMENT KITS (pictured)

MICRON pre-installed with ROM DOS, Windows CE or Windows NT Embedded, PSU and mains cable, Mouse, cable and PCB connection kit, Software and Documentation on CD, Flat Panel Display (optional), Touchscreen (optional), Carrying case.



Blue Chip Technology

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