



Blue Chip Technology

Datasheet - BCT-GP20V

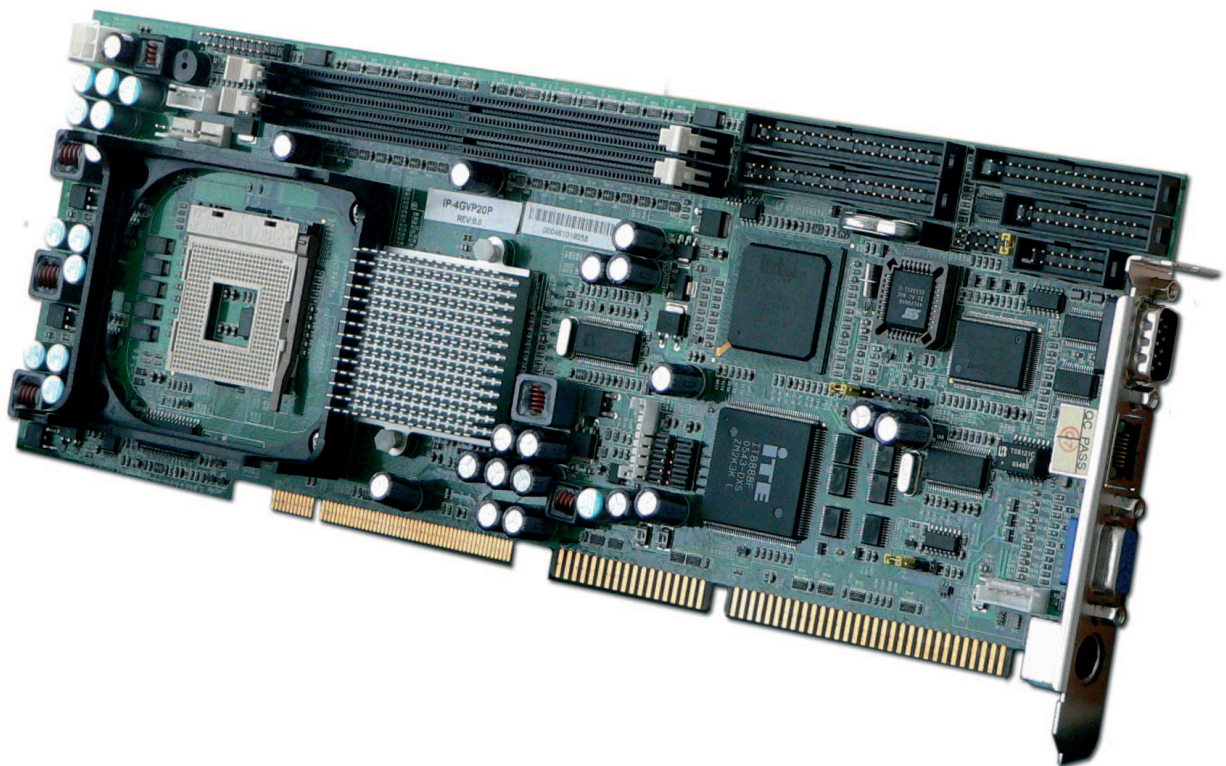
The BCT-GP20V PICMG is a full-length PICMG 1.0 card supporting 478 pin Pentium® 4 or Celeron® processor options, 533/400MHz Front Side Bus and up to 2GB DDR SDRAM. Networking capability is provided by the on-board Intel® 82562EM Ethernet device, which supports 10/100 Mbps. This device can auto-negotiate network speeds and comes complete with drivers for most network environments.

Two high performance Enhanced IDE interfaces allow up to four IDE devices whilst four USB 2.0 ports support high performance peripherals. With the capacity to drive up to four external PCI slots, the board runs a high bandwidth data path for data-movement intensive functions. Further PCI and ISA slots can be accessed via the backplane. To complete the I/O capability, the specification includes floppy interface, two serial ports, Watch Dog Timer, parallel port, PS/2 controller and an optional audio plug-in card.

The BCT-GP20V is compatible with most popular embedded operating systems including Windows 2000, Windows XP, Windows XP Embedded and Linux.

Key Features

- ▶ Intel socket 478 Pentium®4/ Celeron® processors, up to 2.8 GHz
- ▶ Intel® 845GV and ICH4 Chipsets, 533/400 MHz FSB
- ▶ Chipset integrated VGA function
- ▶ Supports 10/100 Base-TX Ethernet
- ▶ Watchdog and Hardware monitoring function
- ▶ 4 x USB 2.0 ports
- ▶ Supports Hyper Threading Technology



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Technical Specification

System

Intel Socket 478 Pentium® / Celeron Processors up to 2.8GHz
Front Side Bus Speed 400 / 533 MHz
Award BIOS
Main chip Set - Intel® 845G/GV + ICH4 chipsets
Two 184-pins DDR DIMM supporting DDR200/266 SDRAM, up to 2GB (max)

Local Storage

Onboard IDE -two EIDE channels for DMA & PIO Modes
Supports up to four ATA/100/66/33 IDE devices

Operating System Support

Windows 2000, Windows XP, Windows XP Embedded and Linux

Enhanced IO

Onboard WinbondR W83627HF chip supporting:
1 x IrDA by 5-pin pin header
1 x Floppy Interface
1 x SPP/EPP/ECP parallel port by pin header
COM1 for RS-232, COM2 for RS-232 or RS-422/485 (jumper selectable)
Support 4 x USB 2.0 ports
6-pins mini DIN for PS/2 type keyboard/mouse
1 x 6-pin header connector for external keyboard

Display/Audio

Onboard VGA Controller Intel 845GV chipset integrated VGA function
Shared memory up to 64MB (15 way D on rear panel)
AC97 Audio Codec
Optional Audio plug-in card with bracket

Local Area Network

LAN Controller Intel 82562EM, for 10 / 100 Base-TX, supports wake up on LAN

Environmentals/Mechanicals

Operation temperature: 0° to 60°C (32° to 140°F) Storage temperature: -20° to 80°C (-68° to 176°F)
Relative humidity: 10% to 90% (Non-Condensing)
Board dimensions 13.3" x 4.8" (338 mm x 122mm)
Compliant with EN55022 (A) and EN55024
CE and FCC approval

System Management

Hardware Monitoring Monitoring of CPU and system temperature, voltage and fan speeds
On-board 3.7 Volt field replacable Lithium battery, supports Real Time Clock and CMOS RAM
BIOS provides APM

Expansion

ISA edge connector interface, fully buffered drive for up to 4 ISA slots
PCI Local Bus Interface Version 2.1, support for up to 4 PCI slots
PICMG (version 2.0) compliant

Power

Requires ATX power supply with 4 pin 12V connector

Warranty

3 years return to base standard, further options by arrangement