



Blue Chip *Technology*

Datasheet - BCT-915A Slot Card

The Blue Chip Technology BCT-915A Single Board Computer brings together the latest processor, graphics, memory and I/O capabilities. It's perfectly suited to driving advanced applications in manufacturing, test/analysis, medical, broadcast and communications arenas.

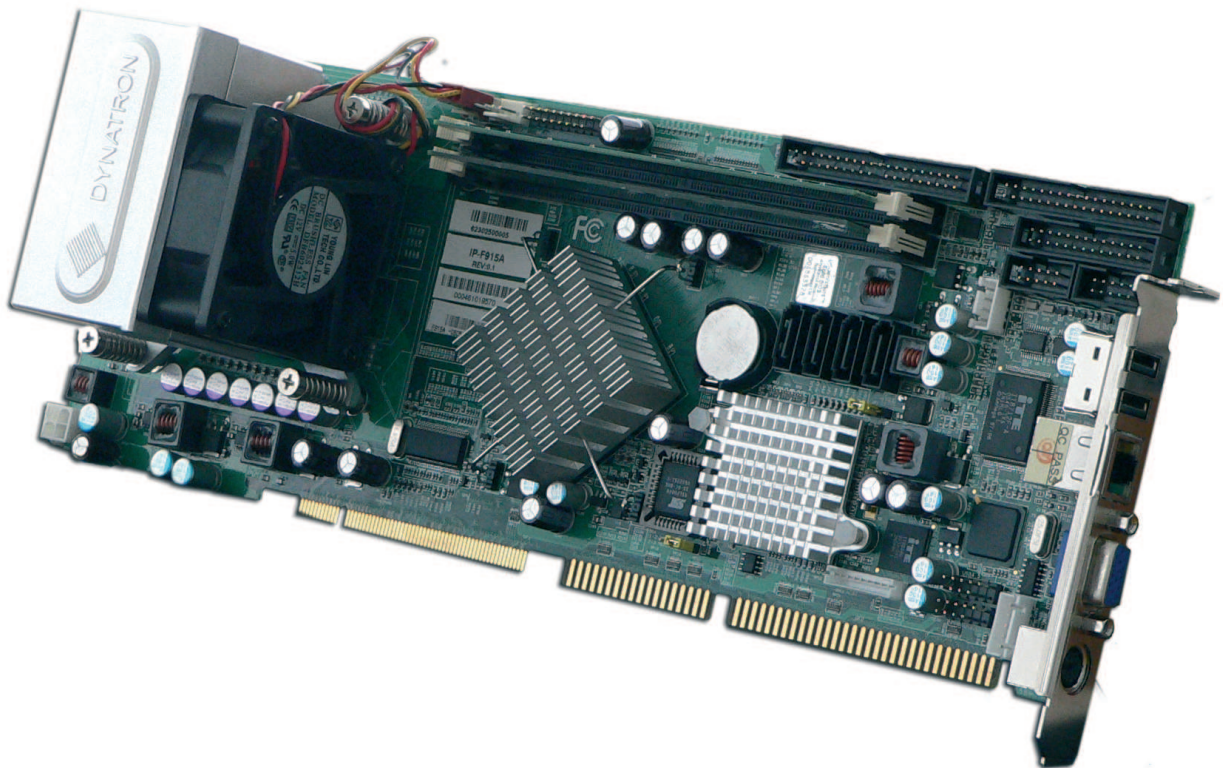
This full-length PICMG design supports Pentium® 4 or Celeron® processor options, delivering CPU performance up to 3.4Ghz with a 533/800 MHz Front Side Bus. With a 10/100 Base LAN network capability, the onboard controller can auto-negotiate network speeds and comes complete with drivers for most network environments.

The dual channel memory architecture supports up to 2GB of 400/533MHz DDR2 memory. The BCT-915A has four S-ATA channels (150MB/s) and retains one enhanced EIDE for PIO and DMA mode supporting two ATA-100/66/33 IDE devices. 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, keyboard and mouse (PS/2) controller.

The BCT-915A is compatible with most popular embedded operating systems including Windows 2000, Windows XP, Windows XP Embedded and Linux.

Key Features

- ▶ Intel socket 775 Pentium® 4/ Celeron® Processors, up to 3.4GHz
- ▶ Intel® 915GV and ICH6 Chipsets, 533/800 MHz FSB
- ▶ Chipset integrated VGA function
- ▶ 10/100 Base TX LAN
- ▶ Watchdog and Hardware monitoring function
- ▶ Onboard Serial ATA
- ▶ 6 x USB 2.0 ports
- ▶ Optional IP-ALCS20 audio card



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BS EN ISO 9001:2000



Technical Specification

System

Intel Socket 775 Pentium® / Celeron Processors up to 3.4 GHz
Front Side Bus Speed 533 / 800 MHz
Award BIOS
Main chip Set - Intel® 915G/GV + ICH6 chipsets
Two 240-pins DDR2 DIMM supporting DDR400/533 SDRAM, up to 2GB (max)

Local Storage

Onboard IDE - one enhanced EIDE channels for DMA & PIO Modes
Supports up to two ATA/100/66/33 IDE devices
Four S-ATA ports, supports data transfer rates up to 150MB/s

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 selctable)
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 915GV chipset integrated VGA function
Shared memory up to 64MB (15 way D on rear panel)
AC97 Audio Codec
Optional IP-ALCS20 audio card

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