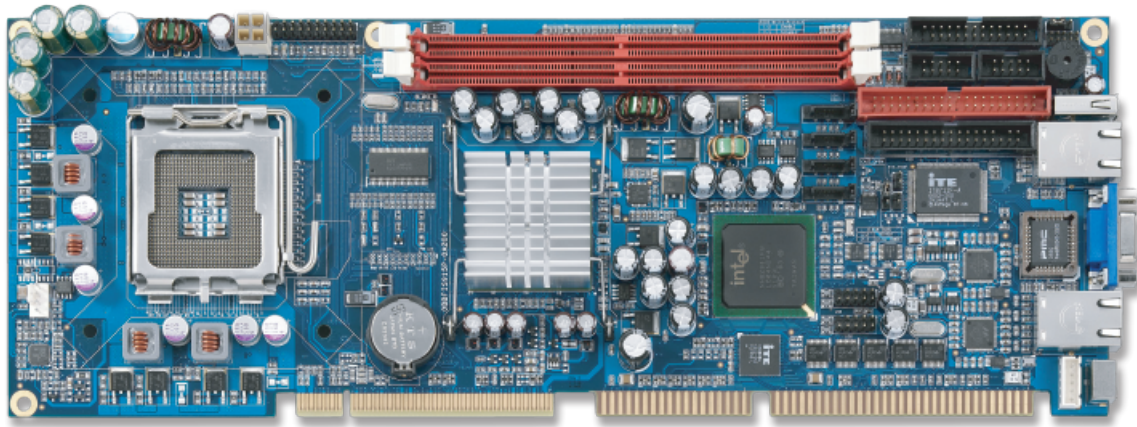# PCI-755

Full-Size SBC featuring Intel® Pentium® 4 or Celeron® D Processor with VGA, Dual Gigabit Ethernet, USB 2.0, SATA

RoHS compliant
2002/95/EC

- ➤ **LGA775 socket support, 800/533 MHz System Bus**
- ➤ **Hyper-Threading Technology Support**
- ➤ **DDR2 and 400/533 up to a maximum of 2GB**
- ➤ **High-speed USB 2.0 ports**
- ➤ **2 Gigabit Ethernet ports**
- ➤ **4 Channels SATA 1.5Gb/s**
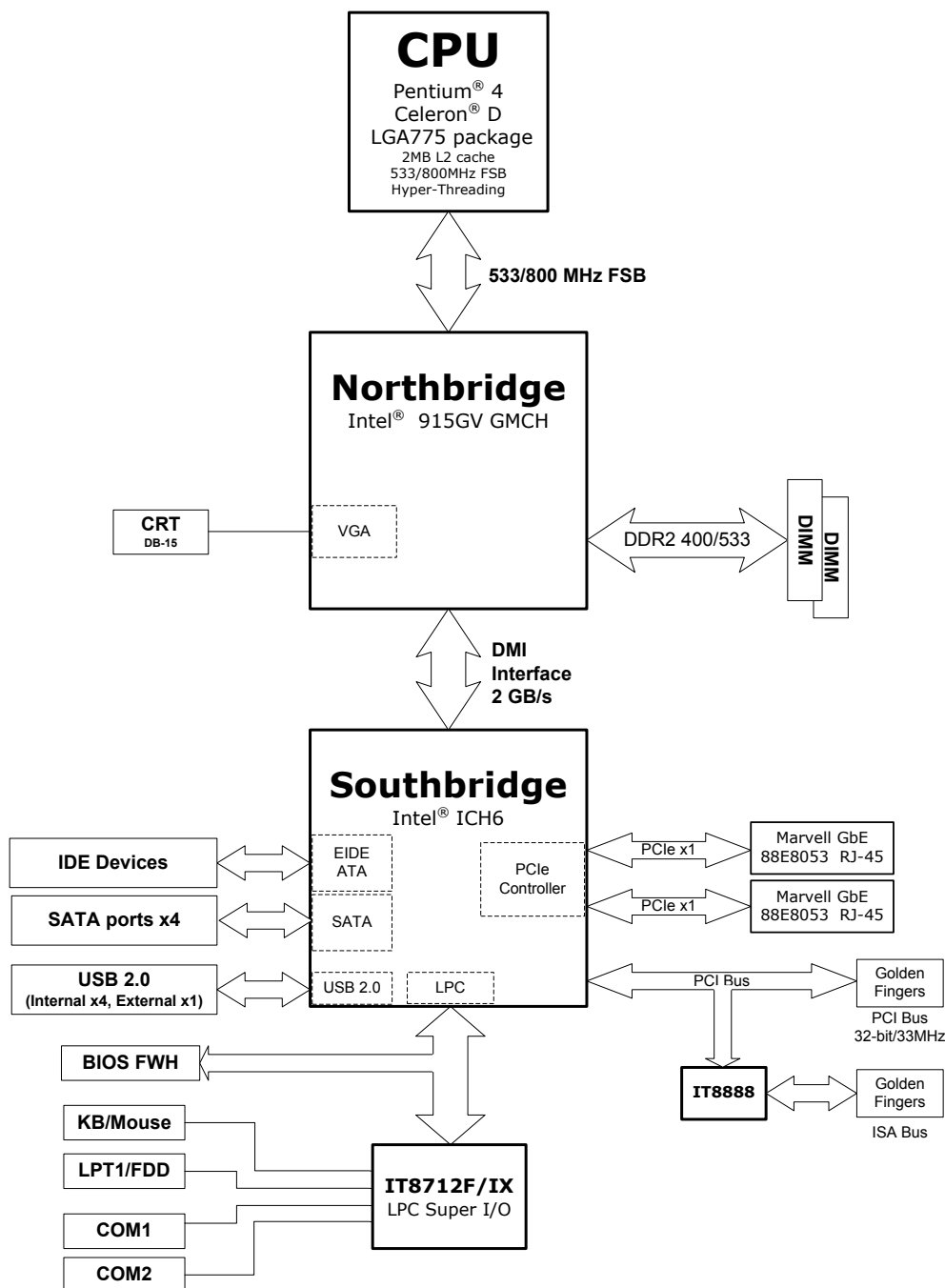- ➤ **Watchdog Timer**

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➤ Product Overview

The PCI-755 is a full-size PICMG 1.0 form factor single-processor system host board based on the Intel® 915GV chipset with ICH6 I/O Controller Hub. It features the 90nm process Intel® Pentium® 4 Processor with LGA775 socket, 800MHz Front Side Bus, and 2MB L2 cache and supports DDR2 DIMM 400/533MHz, up to 2 DIMMs and a maximum of 2GB. The Intel® Graphic Media Accelerator 900 technology with VGA up to 2048x1536x8bit at 75Hz resolution,

PCI-Express LAN, USB 2.0 and SATA round out the package for a powerful rack-mount or wall-mount system.

I/O features of the PCI-755 include a 32-bit/33MHz PCI Bus, onboard Gigabit Ethernet, LPC, EIDE Ultra ATA/100, 4 Channels SATA 1.5Gb/s, UART compatible serial ports, parallel port, floppy drive port, PS/2 Keyboard and Mouse.

➤ Block Diagram

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➤ Technical Information

Specifications
Full-size PICMG 1.0 Single Board Computer
Dimensions: 338.6mm (L) x 122mm (W) (13.33"x4.8")

Processors
Single Processor with Intel® Land Grid Array 775 (LGA775) package
Intel® Pentium® 4 Processor or Celeron® D with 1MB L2 cache
533/800MHz Front Side Bus
Auto-selection of CPU frequency and core voltage
Intel Hyper-Threading Technology supported

Chipsets
Intel® 915GV Graphic Memory Controller Hub (GMCH)
Intel® I/O Controller Hub 6 (ICH6)

BIOS
Support for 4 Mb Firmware Hub
BIOS write protection provides anti-virus capability
DMI BIOS Support
Supports system soft power-off (via ATX power supply)
Supports PXE Remote Boot
Supports boot from USB Device

System Memory
DDR2 400/533MHz up to 2 DIMMs Maximum 2GB System Memory

Graphics
GMCH analog RGB output on the faceplate.
Resolution up to 2048 x 1536 at 75Hz

PCI Support
PCI Local Bus Specification, Rev 2.3 compliant
PCI Golden Fingers

Bus on PICMG 1.0
ISA Interface, I/O & IRQ supported only (no DMA & bus master support)
Supports one PCI bus (32-bit at 33MHz)

Clock Generator
Integrated Circuit Systems ICS954101 (CK410)

I/O Controller
LPC Super IO controller ITE IT8712F/HX

On-board LAN
2x Marvell 88E8053 GbE - RJ45 on faceplate
Supports IEEE 802.3x compliant flow control
Supports IEEE 802.3ab Auto-Negotiation of speed, duplex and flow control

Peripheral Support
1x IDE supports two devices
4x SATA 1.5Gb/s devices
5x USB Rev. 2.0 (4x internal, 1x external)
2x 16550 UART compatible serial ports with ESD protection
1x parallel port with SPP/ECP/EPP mode
1x floppy port
PS/2 Keyboard and Mouse port on bracket
CPU FAN connector for FAN speed control

Watchdog Timer
Two-stage watchdog timer

Miscellaneous
Voltage, fans and CPU/System temperature monitoring.
Fan speed control and monitoring

KB/ MS   GbE   VGA   GbE   USB

➤ Product Information

Article	Part No.	Description
PCI-755	BFIS915P-001000N	Full-Size SBC supporting Intel® Pentium® 4 or Celeron® D Processor with VGA, Dual Gigabit Ethernet, USB 2.0, SATA
CPU Cooler	0H05CPU92926500L	Standard CPU cooler for LGA775 socket (92x92x65.6mm)
CPU Cooler (slim)	0ZCCOOLER000000L	Slim CPU cooler for LGA775 socket - up to 3.4GHz (93x93x29.5mm)

Standard CPU cooler

Slim CPU cooler

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