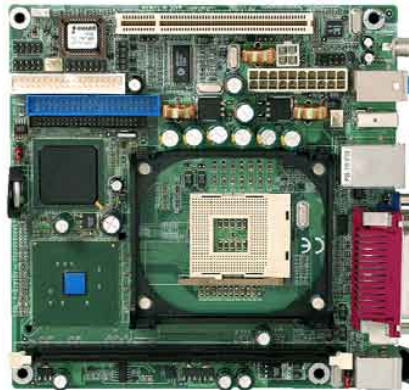


# MBC-4209 ANL

**AICSYS**  
ADVANCED INDUSTRIAL COMPUTER SYSTEMS

**Mini-ITX Mobile  
Intel P4-M Embedded  
Motherboard with Intel  
Extreme Graphics VGA,  
Chrontel CH7017A LVDS/TV-Out,  
Intel PRO100+ LAN, 5.1-CH & S/P DIF  
Audio, IEEE 1394 and Hi-Speed USB 2.0**



## Features

- Mobile Intel Pentium 4-M CPU (400 MHz FSB)
- Intel Brookdale-GV chipset with 82845GV GMCH and 82801DB ICH4
- Intel 845GV built in Intel Extreme Graphics
- Chrontel CH7017A LVDS Transmitter and TV-Out Encoder
- One 184-pin DIMM sockets for up to 1GB DDR266/333 SDRAM
- Intel PRO/100+ LAN
- 5.1-CH & S/P DIF Audio
- IEEE 1394 Interface and Hi-Speed USB 2.0

## CPU

Mobile Intel Pentium 4-M up to 2.5GHz @400MHz FSB On-die 512KBytes Full-Speed Level 2 (L2) cache, Micro FCPGA package, Intel NetBurst Micro architecture.

## Chipset

Intel Brookdale-GV chipset with 82845GV GMCH and 82801DB ICH4.

## System Memory

One 184-pin DIMM socket for up to 1GB DDR266/333 SDRAM.

## BIOS

Award BIOS.

## VGA Controller

Intel 845GV GMCH built-in Intel Extreme Graphics with 266 MHz VGA Core Intel Dynamic Video Memory up to 64MB shared with system memory. Chrontel CH7017A built-in LVDS interface for TFT LCD flat panel and TV-Out encoder (with AV and S-Video output).

## IDE Interface

Dual UltraATA/100 bus master IDE channels, supports up to 4 ATAPI devices on 40-/44-pin IDE ports. Jumper selectable Vcc power output on 40-pin IDE1 for power-cable-free DiskOnModule flash disk.

## Expansion Slots

One PCI slot supports up to two PCI bus master add-on cards with riser card.

## Ethernet

Intel PRO/100+ LAN with Intel ICH4 and 82562ET Phy.

## Audio

Intel ICH4 integrated audio system with ACL650 AC97 3D Audio Codec with 5.1 channel, Line-in, Line-out, Mic-in, CDin and S/P DIF interface.

## Flash Memory Disk

Reserved socket for DiskOnModule, supports up to 512MB DOM flash disk with TrueFFS and ECC/EDC data protection.

## I/O Ports

Serial Ports:	1x RS-232
Parallel Port:	One SPP/ECP/EPP parallel port
FDD Port:	1 FDD port, supports up to 2 floppy devices
Universal Serial Bus:	Supports four USB 2.0 ports
IR Interface:	Supports 1 IrDA
Keyboard/Mouse Connector:	PS/2 type connector
IEEE1394:	Agere FW323 IEEE 1394 controller AV RCA & S-Video TV-Out, 5.1-CH & S/P DIF Audio

## Watchdog Timer

Generates NMI or system reset with 1~255 sec./min.

## Power Requirement

5V@0.5A, 3.3V@2.7A, 12V@2.5A (P4-M 2.4GHz, 256MB DDR SDRAM).

## Environment

Operating Temperature: 0°C ~ 60°C  
Storage Temperature : -20° ~ 80°C  
Humidity : 10% to 90% RH, non-condensing

## Dimensions

170 mm x 170 mm

## Ordering Information

MBC-4209 ANL Standard Product

## Contact Information

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