

ORavision Control OLong Life Cycle



CA100-D

Intel® GM45 mini-ITX Board

PROCESSOR

- Intel® Core™2 Penryn processor
- 1066/800/667MHz FSB
- Intel® 45nm transistor technology

- Intel® Trusted Execution Technology (Intel® TXT)
 Intel® Virtualization Technology (Intel® VT) DMA
 Supports Data Bus Inversion (DBI)
 Supports Message Signaled Interrupt (MSI)
 Supports Intel® architecture with Intel® Wide Dynamic Execution
- Processor socket: ZIF 478 PGA socket

CHIPSET

- Intel® chipset

 - Intel® GM45 Express chipset Intel® ICH9M I/O Controller Hub

SYSTEM MEMORY

- Two 204-pin SODIMM sockets Supports 667/800/1066MHz DDR3 SDRAM
- Supports maximum of 8GB system memory
- 64-bit wide per channel
- 256Mb, 512Mb, 1Gb and 2Gb memory technologies Supports non-ECC x8 and x16 DIMMs Supports On-Die Termination (ODT)

- Supports partial writes to memory using data mask signals (DM)

EXPANSION SLOTS

- 1 PCI Express x1 slot 1 PCI slot

ONBOARD GRAPHICS FEATURES

- Intel® GMA4500 integrated graphics engine
 - Supports 3D, 2D and video capabilities, DX10 and OpenGL 2.1

ONBOARD AUDIO FEATURES

- Realtek ALC262 2-channel High Definition Audio
- Three stereo ADCs support 16/20-bit PCM format for multiple input streaming
- High quality analog differential CD input 16/20/24-bit S/PDIF-OUT supports 44.1K/48K/96K/192kHz sample rate
- 16/20/24-bit S/PDIF-IN supports 44.1K/48K/96K/192kHz sample rate

ONBOARD LAN FEATURES

- Two Realtek RTL8111C-GR PCI Express Gigabit controllers Integrated 10/100/1000 transceiver

- Supports Full Duplex flow control (IEEE 802.3x)
 Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
 Supports power down / link down power saving

SERIAL ATA INTERFACE

- Four Serial ATA ports
- Data transfer rate up to 3Gb/s
- Integrated Advanced Host Controller Interface (AHCI) controller

IDE INTERFACE

- JMicron JMB368 PCI Express to PATA host controller

- Supports Native Mode operation Supports PIO Modes 0, 1, 2, 3, 4 Supports Multiword DMA Modes 0, 1, 2
- Supports Ultra DMA 33/66/100/133
- Supports ATA/ATAPI command

REAR PANEL I/O PORTS

- 1 mini-DIN-6 PS/2 mouse port 1 mini-DIN-6 PS/2 keyboard port

- 2 DB-9 serial ports
 1 DB-15 VGA port
 1 DVI-1 port (DVI-D signal only)
 2 RJ45 LAN ports
 4 USB 2.0/1.1 ports

- Mic-in, line-in and line out jacks

I/O CONNECTORS

- 2 connectors for 4 additional external USB 2.0/1.1 ports
- LCD brightness control connector
- LVDS LČD panel connector
- LCD/inverter power connector
- Digital I/O connector
- front audio connector for line-out and mic-in jacks
- CD-in internal audio connector
- S/PDIF connector
- Serial ATA connectors
- 40-pin IDE connector
- 20-pin ATX power connector
- front panel connector
- 2 fan connectors

BIOS

- Award BIOS
- 16Mbit SPI flash memory

ENERGY EFFICIENT DESIGN

- Supports ACPI specification and OS Directed Power Management
- Supports ACPI STR (Suspend to RAM) function
- Wake-On-Events include:
 Wake-On-PS/2 Keyboard/Mouse
 - Wake-On-USB Keyboard/Mouse Wake-On-LAN

 - Wake-On-Ring

- Wake-On-Ring RTC timer to power-on the system System power management supported CPU stopped clock control Microsoft®/Intel® APM 1.2 compliant Soft Power supported ACPI v2.0 specification AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors Vcore/12V/1.5V/5V/5VSB voltages and failure
- Monitors CPU/chassis fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed
- Watchdog timer function

TEMPERATURE

0°C to 60°C

HUMIDITY

10% to 90%

- 8-layers, mini-ITX form factor
- 17cm (6.7") x 17cm (6.7")