

# ORavision Control OLong Life Cycle



# **CA100-D**

# Intel® GM45 mini-ITX Board

#### **PROCESSOR**

- Socket P 478-pin Micro FCPGA for: Intel® Core™2 Duo processor Intel® Celeron® 575 processor
- 1066/800/667MHz FSB

- Intel® 45nm transistor technology
  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

# **CHIPSET**

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

#### SYSTEM MEMORY

- Two 204-pin SODIMM sockets
  Supports DDR3 800/1066MHz
  Supports up to 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® GMA 4500 integrated graphics engineSupports 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 Ethernet 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

- 4 Serial ATA ports compliant with SATA 1.0 specifications SATA speed up to 3Gb/s (SATA 2.0) 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, 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
- 2 DB-9 selial ports
  COM2 supports RS232/485
  1 DB-15 VGA port
  1 DVI-I port (DVI-D signal only)
  2 RJ45 LAN ports
  4 USB 2.0/1.1 ports
  Micrip line in and line out inc.

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

## I/O CONNECTORS

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

## RIOS

- Award BIOS
- 16Mbit SPI flash memory

# **ENERGY EFFICIENT DESIGN**

- ACPI v2.0 specification

- Wake-On-USB Keyboard/Mouse

  - Wake-On-LAN
  - Wake-On-Ring
  - RTC timer to power-on the system CPU stopped clock control Microsoft\*/Intel\* APM 1.2 compliant 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%

- mini-ITX form factor
- 170mm (6.7") x 170mm (6.7")

# **REAR PANEL I/O PORTS**

