DFI-ACP

ORavision Control OLong Life Cycle



CA230-BF

Intel[®] GM45 mini-DTX Board

- 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 200-pin SODIMM sockets
- Supports 667MHz and 800MHz DDR2 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 DDR2 On-Die Termination (ODT)
- Supports partial writes to memory using data mask signals (DM)

EXPANSION SLOTS

- 1 PCI Express x16 slot
- 1 PCI Express x1 slot
- 1 PCI slot

ONBOARD GRAPHICS FEATURES

Intel® Gen 5.0 integrated graphics engine

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
- 16/20/24-bit S/PDIF-IN supports 44.1K/48K/96K/192kHz sample rate

ONBOARD LAN FEATURES

- 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
- DVI-I port (DVI-D signal only)
- 1 RJ45 LAN port
- 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 1 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
- 1 40-pin LVDS connector
- 40-pin IDE connector
- 20-pin ATX power connector
- 4-pin 12V power connector
- 1 front panel connector
- 2 fan connectors

- Award BIOS
- 8Mbit 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
 - 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/VCC3/VBAT/3VSB/12V/1.5V/1.8V/5V
- voltages and failure alarm
- Monitors CPU/chassis fan speed and failure alarm Read back capability that displays temperature,
- voltage and fan speed Watchdog timer function

8-layers, mini-DTX form factor

20.3cm (8") x 17cm (6.7")

TEMPERATURE

0°C to 60°C

HUMIDITY

- 10% to 90%
- PCB