# )FI-ACP

## ORavision Control OLong Life Cycle



## **LR101-B16S**

## Intel® Atom™ D410 Mini-ITX Board

#### **PROCESSOR**

- Intel® Atom™ D410 (Single-Core)
- On die 1 x 512KB, 8-way L2 cache C0 and C1 C-states
- 1.6GHz core frequency, 1.10V voltage
- IA 32-bit and Intel® 64 architecture
- Micro-FCBGA8 packaging technologies

#### **SOUTHBRIDGE**

• Intel® ICH8M I/O Controller Hub

### **SYSTEM MEMORY**

- Two 200-pin SODIMM sockets
- Supports DDR2 667/800MHz only
- Supports up to 4GB system memory
- Single channel memory interface
- Supports x16 devices

#### **EXPANSION SLOTS**

- 1 PCIE x1 slot
- 1 PCI slot
- 1 CompactFlash socket

#### **ONBOARD GRAPHICS FEATURES**

- Intel® GMA 3150
- Contains a refresh of the 3rd generation graphics core
- 400MHz render clock frequency Display ports: LVDS and VGA
- Integrated single LVDS channel supports resolution up to 1366x768, 18bpp
- Analog VGA display output up to resolution 2048x1536 @ 60Hz
   DirectX 9 compliant Pixel Shader 2.0

#### **S3 GRAPHICS FEATURES**

- \$3 Graphics Chrome® 435 ULP
- 500MHz core clock
- Four DDR2 512Mbit 32Mx16 memory
- Display ports: 2 DVI-I and 1 HDMI
  - Does not support multiple displays using HDMI and 2 DVI-I at the same time. For dual display, use the bottom DVI-I with either the top DVI-I or HDMI.
- DVI display resolution up to 2560x1600
- 64-bit memory bus width Dual rank 256MB maximum memory
- H.264/AVC MPEG-4 Advanced Video Coding (AVC) hardware acceleration
- VC1 hardware acceleration based on SMPTE 421M and its derivative standards
- ChromotionHD 2.0 Programmable Video Engine DX10.1 Unified Shader Architecture Shader Model 4.1 Supports 32-bit OS (Windows 7/Vista/XP) only

## **ONBOARD AUDIO FEATURES**

- Realtek ALC262 2-channel High Definition Audio
- High performance DACs with 100dB SNR
- ADCs with 90dB SNR
- Two stereo DACs support 24-bit PCM format for stereo audio playback Three stereo ADCs support 20-bit PCM format for multiple
- input streaming S/PDIF audio interface

## **ONBOARD LAN FEATURES**

- Realtek RTL8111DL PCI Express Gigabit Ethernet controller 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**

- 3 Serial ATA ports compliant with SATA 1.0 specification SATA speed up to 3Gb/s (SATA 2.0)

#### **REAR PANEL I/O PORTS**

- 1 DC-in 12V jack 2 DVI-I ports (1 shared with HDMI port) 1 DB-15 VGA port
- HDMI port
- 1 RJ45 LAN port 6 USB 2.0/1.1 ports
- · Mic-in, line-in and line-out

#### I/O CONNECTORS

- 1 connector for 2 external USB 2.0/1.1 ports
- 2 connectors for 2 external serial ports
  - COM2 supports RS232/422/485
- Pins 1 and 9 of COM1 functions as RS232 signal or power (selectable via jumper)
  connector for P\$/2 keyboard/mouse ports
  LVD\$ LCD panel connector
  LCD/inverter power connector

- 8-bit DIO connector
- DIO power connector
- front audio connector for line-out and mic-in jacks
- 1 CD-in connector 1 S/PDIF connector 3 Serial ATA connectors 1 44-pin IDE connector

- 4-pin power connector
- front panel connector
- chassis intrusion connector
- 2 fan connectors

#### **MULTIPLE DISPLAYS**

- Supports 4 displays VGA + LVDS + Bottom DVI-I + Top DVI-I; or
- VGA + LVDS + Bottom DVI-I + HDMI

#### **BIOS**

- AMI BIOSSPI BIOS

### **ENERGY EFFICIENT DESIGN**

- ACPI v1.0a specification
- System Power Management Wake-On-Events include:
- Wake-On-PS/2 Keyboard/Mouse
- Wake-On-USB Keyboard/Mouse
- Wake-On-LAN
- RTC timer to power-on the system
- AC power failure recovery

#### DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors CPU(V)/3.3V/5V/12V/VBAT(V) voltages and failure
- Monitors system 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**

