

# DFI-ACP

○ Revision Control ○ Long Life Cycle



## BL631-D Intel® Q35 ATX Board

### PROCESSOR

- LGA 775 socket for:
  - Intel® Core™2 Quad / Intel® Core™2 Duo
  - Intel® Wolfdale 45nm processors
- Supports Intel Enhanced Memory 64 Technology (EMT64T)
- Supports Enhanced Intel SpeedStep Technology (EIST)
- 1333\*/1066/800MHz FSB
- \*Available on CPUs that support 1333MHz FSB

### CHIPSET

- Intel® chipset
  - Intel® Q35 Express chipset
  - Intel® ICH9 I/O Controller Hub

### SYSTEM MEMORY

- Four 240-pin DDR2 DIMM sockets
- Supports dual channel (128-bit wide) memory interface
- Supports 667MHz and 800MHz DDR2 SDRAM
- Supports maximum of 8GB system memory using 512Mbit or 1Gbit technology for x8 and x16 devices
- \*ECC DDR2 DIMMs are not supported

### EXPANSION SLOTS

- 1 PCI Express x16 slot
- 2 PCI Express x1 slots
- 3 PCI slots

### ONBOARD GRAPHICS FEATURES

- Integrated Intel GMA3100
  - Up to 384MB maximum video memory
  - 2048x1536 at 75 Hz maximum resolution
  - Supports DVI port through Serial Digital Video Out (SDVO) interface
  - Dual screen display through CRT and DVI-I (DVI-D signal only) ports

### ONBOARD AUDIO FEATURES

- Realtek ALC885 8-channel HD Audio Codec
- High-performance DACs with 106dB dynamic range (A-Weight), ADCs with 101dB dynamic range (A-Weight)

### ONBOARD LAN FEATURES

- Two Realtek RTL8111B PCI Express Gigabit controllers
- Supports 10Mbps, 100Mbps and 1Gbps data transmission
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

### SERIAL ATA INTERFACE

- Supports 4 SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification
- SATA speed up to 3Gb/s

### IDE INTERFACE

- JMicron JMB368 PCI Express to PATA host controller
- Supports up to 2 UltraDMA 33/66/100Mbps IDE devices

### REAR PANEL I/O PORTS

- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 1 DB-15 VGA port
- 1 DVI-I port (DVI-D signal only)
- 2 RJ45 LAN ports
- 6 USB 2.0/1.1 ports
- 6 audio jacks for center/subwoofer, rear R/L, side R/L, line-in, line-out (front R/L) and mic-in

### I/O CONNECTORS

- 3 connectors for 6 additional external USB 2.0/1.1 ports
- 2 connectors for external RS232 serial ports
- 1 DIO connector
- 1 parallel connector
- 1 front audio connector for line-out and mic-in jacks
- 1 CD-in internal audio connector
- 1 S/PDIF-in/out connector
- 1 connector for IrDA interface
- 4 Serial ATA connectors
- 1 40-pin IDE connector
- 1 floppy connector
- 1 24-pin ATX power connector
- 1 8-pin 12V power connector
- 1 chassis open connector
- 1 front panel connector
- 3 fan connectors

### BIOS

- Award BIOS
- 8Mbit 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 and Wake-On-Ring
  - RTC timer to power-on the system
- System power management supported
- Microsoft®/Intel® APM 1.2 compliant
- Soft Power supported - ACPI v1.0a specification
- AC power failure recovery

### DAMAGE FREE INTELLIGENCE

- Monitors CPU/system/AUX temperature and overheat alarm
- Monitors CPU(V)/5V/1.5V/dimm(V)/12V/VBAT(V)/3.3V/V3.3sb(V) voltages and failure alarm
- Monitors CPU/system/2nd fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed
- Watchdog timer function

### TEMPERATURE

- 0°C to 60°C

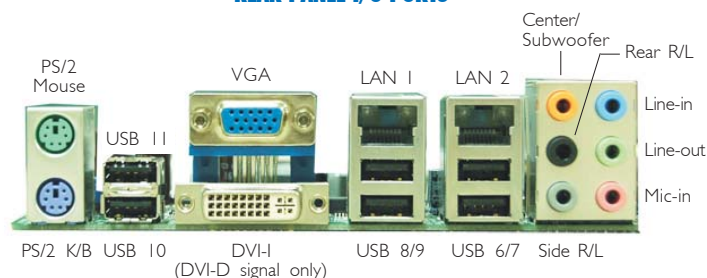
### HUMIDITY

- 10% to 90%

### PCB

- ATX form factor
- 305mm (12") x 244mm (9.6")

### REAR PANEL I/O PORTS



DFI reserves the right to change the specifications at any time prior to the product's release. Changes thereafter will be based on the product's revision. Please contact your sales representative for the exact revision offered in your area. All product names mentioned are trademarks of their respective companies. © April 6, 2011 DFI Inc.

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660