

QB700-B Qseven Board

PROCESSOR

- Intel® Atom™ E680 : QB700-B680
- Intel® Atom™ E660 : QB700-B660
- Intel® Atom™ E640 : QB700-B640
- Intel® Atom™ E620 : QB700-B620

CHIPSET

- Intel® EG20T PCH (Platform Controller Hub)

SYSTEM MEMORY

- Supports memory down (single 32-bit channel)
- Supports DDR2 800MHz
- Supports up to 1GB system memory (default: 512MB)

EXPANSION INTERFACES

- Supports 6 USB ports (USB 1.1/2.0 host controllers)
- Supports 1 USB Client interface
- Supports LPC interface
- Supports SMB and I²C interfaces
- Supports 3 PCIE x1 interfaces
- Supports CAN-bus (Controller-Area Network) interface

ONBOARD GRAPHICS FEATURES

- Intel® GMA 600
- Supports up to 400MHz graphics frequency
- Ultra low power integrated 3D graphics
- High definition hardware video decoder and encoder engine
- Supports LVDS and SDVO interfaces
 - LVDS: Supports pixel clock depths of 18/24-bit, single channel, max. pixel clock of 80MHz, equates to 1280x768 @ 60Hz
 - SDVO: Up to 160MHz pixel clock, equates to 1280x1024 @ 85Hz

ONBOARD AUDIO FEATURES

- Supports High Definition Audio interface

ONBOARD LAN FEATURES

- Integrated Intel® PCH GbE MAC
- One Micrel KSZ9021RNI Ethernet PHY
- Supports 10Mbps, 100Mbps and 1Gbps data transmission
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

SD/SDIO/MMC INTERFACE

- Supports 1 SD/SDIO/MMC
- Supports SDA Standard Ver 1.0, SD memory card specification Ver 2.0, SDIO card specification Ver 1.0, MMC System specification Ver 4.1
- Conforms to Secure Digital Host Controller (SDHC) speed class 6

SERIAL ATA (SATA) INTERFACE

- Supports two Serial ATA interfaces
- SATA speed up to 3Gb/s (SATA 2.0)

BIOS

- 16Mbit SPI Flash BIOS (UEFI BIOS)

ENERGY EFFICIENT DESIGN

- Supports ACPI 2.0/1.0 specification
- Enhanced Intel® SpeedStep Technology

POWER

- Input: VCC_RTC, 5V standby, 5V

TEMPERATURE

- 0°C to 60°C

HUMIDITY

- 10% to 90%

PCB

- Dimensions
 - Qseven form factor
 - 70mm (2.76") x 70mm (2.76")
- Compliance
 - Qseven specification revision 1.1

