

Specifications

CHIPSET

- Intel® EG20T PCH (Platform Controller Hub)

EXPANSION INTERFACES

- Supports USB interface:
 - 7 Host and 1 Host/Client (selectable)
- 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

TRUSTED PLATFORM MODULE (TPM)

- Provides a Trusted PC for secure transactions
- Provides software license protection, enforcement and password protection
- QB701-B640T122, QB701-B680T202, QB701-B680T202 only

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
 - One port shared with SSD
- 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

HUMIDITY

- 10% to 90%

PCB

- Dimensions
 - Qseven form factor
 - 70mm (2.76") x 70mm (2.76")
- Compliance
 - Qseven specification revision 1.2

PROCESSOR / MEMORY / TEMPERATURE / SSD

Model	Processor	Memory	Temperature	SSD Onboard
QB701-B620T102	Intel® Atom E620T	1GB DDR2 onboard	-40°C to 85°C	-
QB701-B640T102	Intel® Atom E640T	1GB DDR2 onboard	-40°C to 85°C	-
QB701-B660T102	Intel® Atom E660T	1GB DDR2 onboard	-40°C to 85°C	-
QB701-B680T102	Intel® Atom E680T	1GB DDR2 onboard	-40°C to 85°C	-
QB701-B620T012	Intel® Atom E620T	512MB DDR2 onboard	-40°C to 85°C	2GB
QB701-B640T122	Intel® Atom E640T	1GB DDR2 onboard	-40°C to 85°C	4GB
QB701-B680T202	Intel® Atom E680T	2GB DDR2 onboard	-40°C to 85°C	-
QB701-B620100	Intel® Atom E620	1GB DDR2 onboard	0°C to 60°C	-
QB701-B640100	Intel® Atom E640	1GB DDR2 onboard	0°C to 60°C	-
QB701-B660100	Intel® Atom E660	1GB DDR2 onboard	0°C to 60°C	-
QB701-B680100	Intel® Atom E680	1GB DDR2 onboard	0°C to 60°C	-

Packing List

- 1 QB701-B board
- 1 heatsink
- 1 DVD
- 1 QR (Quick Reference)