



Features

- Onboard Intel® Atom™ E640 1.00GHz CPU (Optional: E620/ E660/ E680)
- Intel® Platform Controller Hub EG20T Chipset
- Onboard DDR2 1GB Memory
- Dual View, Single-channel 18/24-bit LVDS, 7.1-CH Audio, Dual Gigabit Ethernet
- 2 SATA, 1 CAN Bus, 3 COM, 4 USB, 16-bit GPIO
- 1 MicroSD, 1 CF Socket
- 1 Mini PCIe Card
- Wide Temperature Version Available



1 Embedded System

2 ETXX/XTX/COM Express

3 3.5" SBC

4 EPIC

5 5.25" SBC

6 PC/104

7 ATX

8 Micro ATX

9 Mini ITX

10 Nano ITX

11 ACP

12 Mini ITX System

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Specifications

System

• CPU	Intel® Atom™ E640 1.00GHz CPU (Optional: E620/ E660/ E680)
• BIOS	AMI 8Mbit Flash BIOS
• System Chipset	Intel® Platform Controller Hub EG20T
• I/O Chip	Nuvoton W83627DHG
• System Memory	Onboard DDR2 1GB Memory
• SSD	1 x CompactFlash Type I/II Socket, 1 x MicroSD
• Watch Dog Timer	Reset: 1us to 10min
• H/W Status Monitor	Monitoring System Temperature, Voltage, Auto Trotting Control when CPU Overheats
• Expansion	1 x Mini PCIe Card, 1 x LPC

I/O

• MIO	2 x SATA, 3 x RS-232, 1 x RS-422, 1 x RS-485, 1 x CAN
• USB	4 x USB 2.0
• DIO	8-bit GPI and 8-bit GPO

Display

• Chipset	Intel® Tunnel Creek Integrated
• Resolution	CRT Mode: 1280 x 1024 @ 85Hz LCD/ Simultaneous Mode: 1280 x 768 @ 60Hz
• Multiple Display	CRT + LVDS
• LCD Interface / DVI	Single-channel 18/24-bit LVDS

Audio

• AC97 Codec	Realtek ALC892 Support 7.1-CH Audio
• Audio Interface	Mic-in, Line-in, Line-out

Ethernet

• LAN	Dual Intel® 82574L PCI-E Gigabit Ethernet
• Ethernet Interface	1000 Base-Tx Gigabit Ethernet Compatible

Mechanical & Environmental

• Power Requirement	+12V
• ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
• Power Type	Single Power AT/ ATX
• Operating Temperature	0 ~ 60°C (32 ~ 140°F)
• Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
• Operating Humidity	0%~90% Relative Humidity, Non-condensing
• Size (L x W)	5.7" x 4" (146mm x 101mm)
• Weight	0.44lbs (0.2kg)

Ordering Information

- **ECM-QB**
Intel® Atom™ E6XX Series 3.5" Micro Module with Intel® Platform Controller Hub EG20T Chipset
- **ACC-CF-xx**
CompactFlash Card Series (xx = Capacity, Capacity Option: 128, 256, 512MB, 1, 2, 4, 8GB)