



EPS-QM77

Fanless Intel® Ivy Bridge Rugged Embedded System with Intel® QM77 Chipset



Features

- Support Intel® Core™ i7-3610QE 3.3GHz with 6MB Cache/ Intel® Core™ i5-3610ME 3.3GHz with 3MB Cache/ Intel® Core™ i3-3610ME 2.4GHz with 3MB Cache CPU
- One 204-pin SODIMM Sockets Up to 8GB DDR3 1333/ 1600 SDRAM
- Triple Display, CRT + DP + DP and HDMI + DP + DP
- Intel® HD Audio, Dual Intel® Gigabit Ethernet
- 2 SATA III, 2 SATA II, 8 COM, 8 USB, 1 LPT, 2 PCI, 2 Mini PCIe, 1 SIM Card, 8 In/ 8 Out GPIO
- Supported H/W RAID Mode 0/ 1 Setting by BIOS
- Service Windows, Easy to Install 2.5" HDD/ SSD, DOM, Memory, Mini PCIe Module and Maintenance
- Optional: PCI + PCIe16 Riser Card, 1 PCIe16 Riser Card, Table Mount Bracket, +18Vdc ~ +75Vdc Wide Range DC Power Input Module, Chassis Intrusion Switch

Intel® QM77	VGA HDMI 2 DP	2 GbE	2 SATA III	2 SATA II
8 COM	8 USB	3 Riser Card	2 Mini PCIe	SIM Card

Specifications

System

• Board	EAP-CE02 + ESM-QM77
• CPU	Intel® Core™ i7-3610QE 3.3GHz with 6MB Cache CPU Intel® Core™ i5-3610ME 3.3GHz with 3MB Cache CPU Intel® Core™ i3-3610ME 2.4GHz with 3MB Cache CPU
• BIOS	AMI 16Mbit SPI BIOS
• System Chipset	Intel® QM77 Chipset
• I/O Chip	Nuvoton NTC6776F
• System Memory	One 204-pin SODIMM Sockets Up to 8GB DDR3 1333/ 1600 SDRAM
• Storage	2 x SATA II Supported SATA DOM, 2 x SATA III Supported 2.5" HDD/ SSD
• Watchdog Timer	Reset: 1sec. ~ 255min. and 1sec. or 1min./step
• Display	Intel® QM77 with Integrated Graphics Engine
• Audio	Intel® High Definition Audio
• Ethernet	Dual Intel® Gigabit Ethernet
• System Indicators	6 LED Indicators Show Power, HDD, LAN 1 and 2, RAID 0 and 1
• Expansion Interface	2 PCI Slots, 2 Mini PCIe Sockets (One Supported SIM Card Slot), Optional with 1 PCI + PCIe16 Riser Card, 1 PCIe16 Riser Card

External I/O

• COM	8 x RS232 (4 x COM RS-232/422/485 Setting by BIOS)
• LAN	2 x RJ-45
• Display Output Port	1 x CRT, 1 x HDMI, 2 x Display Port
• Audio	Mic-in, Line-out
• USB	4 USB 2.0 on the Front; 4 USB 3.0 on the Rear
• Digital I/O	8 In and 8 Out GPIO
• Antenna	2 Knockouts for Antenna Mounting (Options to Add WiFi & 3G)
• Extending Switch	1 x 2-pin Phoenix Type Connector

Environment & Mechanical

• Power Requirement	+15Vdc ~ +26Vdc 4-Pin Phoenix Type Connector (Optional with One +18Vdc ~ +75Vdc Wide Range Power Module)
• ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 1.0b and 2.0 Compliant
• Power Type	AT/ ATX
• Operating Temperature	-10 ~ 60°C (w/ SSD/ DOM), Ambient w/ Air Flow
• Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
• Relative Humidity	0% ~ 90% Relative Humidity, Non-condensing
• Vibration Protection	With DOM/ SSD: 5Grms, IEC 60068-2-64, Random, 10 ~ 500Hz, 1hr/axis With HDD: 1Grms, IEC 60068-2-64, Random, 10 ~ 500Hz, 1hr/axis
• Shock Protection	With DOM/ SSD: 50G, IEC 60068-2-27, Half Sine, 11ms With HDD: 20G, IEC 60068-2-27, Half Sine, 11ms
• Mounting	Table Mount
• Dimension (W x D x H)	250mm x 220mm x 113mm
• Weight	10lbs (5Kgs)

Ordering Information

- **EPS-QM77-61Q-A1-1R**
Fanless Intel® Core™ i7-3610QE Rugged Embedded System with QM77 Chipset and VGA, HDMI, 2 Display Port, Audio, Dual Gigabit Ethernet, RAID, LPT, 8 COM, 8 USB, 2 PCI, 2 Mini PCIe, DIO, +15 ~ 26Vdc Input
- **EPS-QM77-61M-A1-1R**
Fanless Intel® Core™ i5-3610ME Rugged Embedded System with QM77 Chipset and VGA, HDMI, 2 Display Port, Audio, Dual Gigabit Ethernet, RAID, LPT, 8 COM, 8 USB, 2 PCI, 2 Mini PCIe, DIO, +15 ~ 26Vdc Input
- **EPS-QM77-12M-A1-1R**
Fanless Intel® Core™ i3-3120ME Rugged Embedded System with QM77 Chipset and VGA, HDMI, 2 Display Port, Audio, Dual Gigabit Ethernet, RAID, LPT, 8 COM, 8 USB, 2 PCI, 2 Mini PCIe, DIO, +15 ~ 26Vdc Input
- **ACC-EPS-WM-2R**
EPS-QM57 Wall Mount Kit (RoHS)

Embedded System