



Features

- Support Intel® Core™ i7-620LE 2.0GHz with 4MB Cache CPU/ Intel® Celeron® P4505 1.86GHz with 2MB Cache CPU
- Intel® QM57 Chipset
- Two 204-pin SODIMMs Up to 8GB DDR3 800/ 1066 SDRAM
- 5.1-CH HD Audio, Dual Gigabit Ethernet
- 1 CFAST, 1 SATA, 8 COM, 6 USB, 1 LPT, 2 PCI, 1 SIM Card, 8-bit/ 16-bit DIO
- Service Window, Easy to Install 2.5" Drive Bay, Memory, Mini PCIe Module
- Fanless Operation; -10 ~ +55°C Wide Temperature Operation
- Optional : PCI + PCIe16 Riser Card, PCIe Riser Card, Table Mount Bracket

Specifications

System

• Board	ESM-QM57
• CPU	Intel® Core™ i7-620LE 2.0GHz with 4MB Cache CPU Intel® Celeron® P4505 1.86GHz with 2MB Cache CPU
• BIOS	AMI 8MBit Flash BIOS
• System Chipset	Intel® QM57 Chipset
• I/O Chip	Winbond W83627DHG-P
• System Memory	Two 204-pin SODIMM Sockets Up to 8GB DDR3 800/1066 SDRAM
• SSD	One CFAST Socket with Ejector and Cover
• Watchdog Timer	Reset: 1sec. ~ 255min. and 1sec. or 1min./step
• Display	Intel® QM57 with Integrated Graphics Engine
• Audio	Realtek HD Audio Supports 5.1-CH Audio
• Ethernet	Dual Intel® 82577LM (PHY) Gigabit Ethernet
• System Indicators	6 LED Indicators Show Power, HDD, LAN
• Drive Bay	Mounting Kit for 2.5" Drive Bay
• Expansion Interface	2 PCI Slots, 2 Mini PCIe Sockets

External I/O

• COM	8 x RS-232
• LAN	2 x RJ-45
• Display Output Port	1 x VGA, 1 x Dual-channel 18/24-bit LVDS
• LPT	1 x Print Port
• Audio	Mic-in, Line-out
• USB	6 x USB 2.0 (Rear 4; Front 2)
• Digital I/O	1 x DB-9 (8-bit), 1 x DB-25 (16-bit)
• Antenna	2 Knockouts for Antenna Mounting (Options to Add WiFi & 3G)
• Extending Switch	1 x 2-pin Phoenix Type Connector

Environment & Mechanical

• Power Requirement	+9 ~ 30V
• ACPI	Single Power ATX Support S0 ~ S5 ACPI 2.0B
• Power Mode	ATX
• Operating Temperature	-10 ~ 55°C (-14 ~ 131°F); 1 SODIMM Slot Occupied -10 ~ 50°C (-14 ~ 122°F); 2 SODIMM Slots Occupied
• Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
• Relative Humidity	5 ~ 90% @ 40°C (104°F), Relative Humidity, Non-condensing
• Vibration Protection	With CFAST: 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis With HDD: 1Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis
• Shock Protection	With CFAST: 50G, IEC 60068-2-27, Half Sine, 11ms With HDD: 20G, IEC 60068-2-27, Half Sine, 11ms
• Mounting	Table Mount
• Certification	CE, FCC Class A
• Dimension (W x D x H)	250mm x 220mm x 108mm
• Weight	10lbs (5Kgs)

Ordering Information

- **EPS-QM57-620-A1-1R**
Fanless Intel® Core™ i7-620LE Rugged Embedded System with QM57 Chipset and 2 PCI, Wide Operating Temp.
- **EPS-QM57-620-A1-2R**
Fanless Intel® Core™ i7-620LE Rugged Embedded System with QM57 Chipset and 1 PCI, 1 PCIe, Wide Operating Temp.
- **EPS-QM57-620-A1-3R**
Fanless Intel® Core™ i7-620LE Rugged Embedded System with QM57 Chipset and 1 PCIe, Wide Operating Temp.
- **EPS-QM57-P45-A1-1R**
Fanless Intel® Celeron® P4505 Rugged Embedded System with QM57 Chipset and 2 PCI
- **EPS-QM57-P45-A1-2R**
Fanless Intel® Celeron® P4505 Rugged Embedded System with QM57 Chipset and 1 PCI, 1 PCIe
- **EPS-QM57-P45-A1-3R**
Fanless Intel® Celeron® P4505 Rugged Embedded System with QM57 Chipset and 1 PCIe
- **ACC-EPS-WM-2R**
EPS-QM57 Wall Mount Kit (RoHS)

1	Embedded System
2	Qseven Module
3	ETX/XTX COM Express
4	3.5" SBC
5	EPIC
6	5.25" SBC
7	ATX
8	Micro ATX
9	Mini ITX
10	Nano ITX
11	ACP
12	Rack Mount System
13	Mini ITX System
14	Peripherals
15	Index