



Two 204-pin SODIMM Sockets
Up to 8GB DDR3
800/1066 SDRAM

Features

- Intel® Core™ i7-620LE/ 620UE/ Celeron® M P4505 Processor
- Intel® QM57 Chipset
- Two 204-pin SODIMM Sockets Up to 8GB DDR3 800/ 1066 SDRAM
- Dual View, Dual-Channel 18/24-bit LVDS
- Intel® High Definition Audio
- Intel® 82577LM Gigabit Ethernet
- LPC, 4 PCI, 6 PCIe1, 1 PCIe16
- 4 SATA, 8 USB 2.0
- Support RAID 0/ 1/ 5/ 10, TPM
- Type 2 Pin-out

Specifications

System

• CPU	Intel® Core™ i7 620LE/ 620UE/ Celeron® M P4505
• BIOS	AMI 8MBit Flash BIOS
• System Chipset	Intel® QM57
• System Memory	Two 204-pin SODIMM Sockets Support Up to 8GB DDR3 800/1066 SDRAM
• Expansion	LPC, 4 PCI (PCI Rev. 2.3 Compliant), 6 PCIe1, 1 PCIe16 (Shared with SDVO, HDMI & Displayport)
• TPM	Nuvoton WPCT200A
• RAID	0/ 1/ 5/ 10

I/O

• MIO	1 x EIDE (Ultra DMA 100), LPC, SMBus/ I ² C Bus, 4 x SATA
• USB	8 x USB 2.0
• DIO	4-bit GPI and 4-bit GPO

Display

• Chipset	Intel® QM57
• Resolution	CRT Mode: 2048 x 1536 @ 60Hz LCD/ Simultaneous Mode: 1600 x 1200 @ 75Hz
• Multiple Display	CRT + LVDS, CRT + SDVO, LVDS + SDVO
• LVDS Interface	Dual-Channel 18/24-bit LVDS
• HDMI DisplayPort	HDMI, DisplayPort Shared with PCIe16

Audio Interface

• Chipset	Intel® QM57 Integrated
• Interface	Intel® High Definition Audio

Ethernet

• LAN	Intel® 82577LM (PHY) Gigabit Ethernet, Supports Wake on LAN
• Ethernet Interface	1000 Base-Tx Gigabit Ethernet Compatible

Mechanical & Environmental

• Power Requirement	+8 ~ +19V
• ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
• Power Type	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" x 3.7" (125mm x 95mm)
• Weight	0.44lbs (0.2kg)

Ordering Information

- **ESM-QM57**
Intel® Core™ i7-620LE/ 620UE/ Celeron® M P4505 COM Express Module with Intel® QM57 Chipset
- **EEV-EX13**
COM Express Carrier Board for Evaluation
- **ACC-HSK-2860-1R**
Heatsink with Fan for ESM-QM57