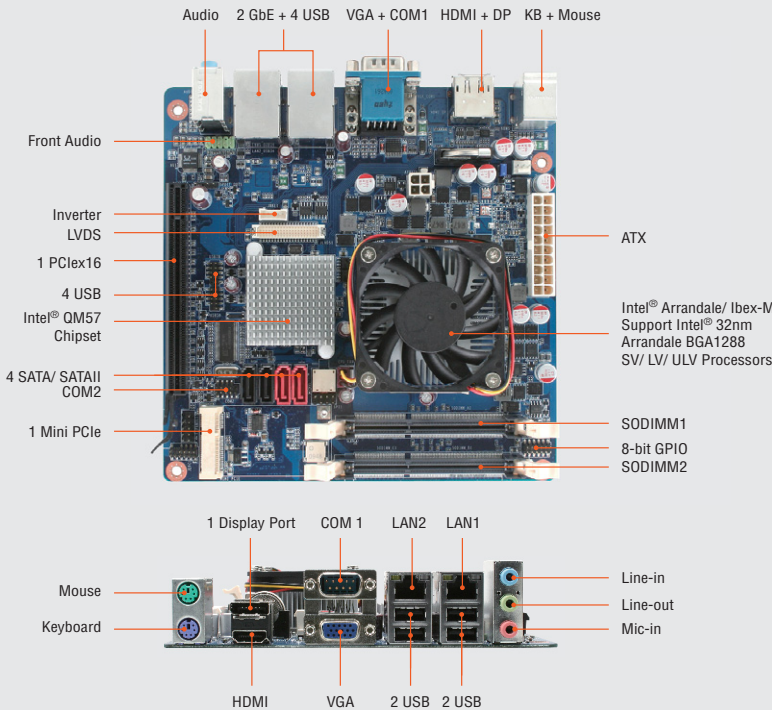




# EMX-QM57

## Intel® Calpella Mini ITX Motherboard with Intel® QM57 Chipset



## Features

- Intel® Arrandale/ Ibex-M Support Intel® 32nm Arrandale BGA1288 SV/ LV/ ULV Processors, TDP Up to 35W by iMVP-6.5
- Intel® QM57 Chipset
- Two SODIMMs Up to 8GB DDR3 Dual-channel 1066/ 800MHz SDRAM
- Realtek ALC888 Supports 5.1+2-CH HD Audio
- Intel® 82577-LM PCI-E Gigabit Ethernet Support iAMT 6.0; Realtek RTL8111C PCI-E Gigabit Ethernet
- 1 PCIe16, 1 Mini PCI Express
- 4 SATA/ SATAII, 1 Display Port, 1 HDMI, 1 VGA, 1 LVDS Conn., 1 LVDS backlight Conn., 2 COM, 8 USB, 8-bit GPIO
- Intel® i KVM

Intel QM57	5.1+2-CH Audio	2 GbE	PCIe16	Mini PCIe
4 SATA/ SATAII	Display Port	HDMI	VGA	2-CH LVDS
2 COM	8 USB	8 GPIO		

## Specifications

### System

• CPU	Intel® Arrandale/ Ibex-M Support Intel® 32nm Arrandale BGA1288 SV/ LV/ ULV Processors, TDP Up to 35W by iMVP-6.5
• BIOS	AMI uEFI 32Mb SPI BIOS
• System Chipset	Intel® QM57
• I/O Chip	Winbond W83667HG-A
• System Memory	Two SODIMMs Up to 8GB DDR3 Dual-channel 1066/ 800MHz SDRAM
• Watchdog Timer	Reset: 1sec. ~ 255min. and 1sec. or 1min./step
• H/W Status Monitor	Monitoring CPU Temperature and Cooling Fan Status. Auto Throttling Control When CPU Overheats
• Expansion	1 PCIe16 (PEG & SDVO); 1 Mini PCIe1
• DIO	8-bit (4-in/ 4-out)
• S3/ S4	Yes (S1/ S3/ S4/ S5)
• Wake Up on LAN or Ring	WOL & WOR
• SmartFan Control	Yes

### Display

• Chipset	Intel® Arrandale Integrated Graphic Device
• Display Memory	Intel® Arrandale IGD Support DVMT 5.0
• Max Resolution	CRT: 2048 x 1536 @ 75MHz
• Dual Display	VGA + LVDS, VGA + DP, VGA + HDMI (Lower bpp config.)
• VGA	Yes
• LVDS	Yes, Through Internal LVDS Connector
• LVDS Backlight Power Connector	Yes, Through Internal LVDS Backlight Connector
• Display Port	Yes. (Chrontel 7318)
• HDMI	Yes. (Chrontel 7318, HDMI 1.3 w/ HDCP)

### Audio

• Audio Codec	Realtek ALC888 Supports 5.1+2-CH HD Audio
• Audio Interface	Mic-in, Line-in, Line-out

### Ethernet

• LAN 1	Intel® 82577-LM PCI-E Gigabit Ethernet Support iAMT 6.0
• LAN 2	Realtek RTL8111C PCI-E Gigabit Ethernet

### I/O

• Back Panel I/O Port	1 x PS/2 KB/MS, 1 x Display Port, 1 x HDMI, 1 x VGA + COM Conn., 2 x RJ-45 Port + 2USB Conn., 1 x Audio Jack (3 ports)
• Internal I/O Connector	2 x USB Connectors Support Additional 4 USB Ports, 1 x LVDS Connector, 1 x Backlight Connector, 4 x SATA Connectors, 1 x CPU Fan Connector, 1 x Chassis Fan Connector, 1 x Front Panel Header, 1 x RS-232 Pin-header, 1 x 8-bit DIO (4-in/ 4-out)

### Mechanical & Environmental

• Power Type	ATX
• ACPI	APMI 1.2, support ACPI
• Operating Temperature	0 ~ 60°C (32 ~ 140°F)
• Operating Humidity	0 ~ 90% Relative Humidity, Non-condensing
• Size (L x W)	6.69" x 6.6" (170mm x 170mm)
• Weight	0.88lbs (0.4kg)

## Ordering Information

- **EMX-QM57-520M-A1R**  
Intel® QM57 with i5-520M 2.4GHz CPU Min-ITX M/B W/ VGA, 1 PCIe16, 2-CH 24-bit LVDS, 1 Mini-PCI Express, 2 COM, 8 USB, 4 SATAII, 8-bit GPIO
- **EMX-QM57-P4505-A1R**  
Intel® QM57 with Celeron® P4505 1.86GHz CPU Min-ITX M/B W/ VGA, 1 PCIe16, 2-CH 24-bit LVDS, 1 Mini-PCI Express, 2 COM, 8 USB, 4 SATAII, 8-bit GPIO