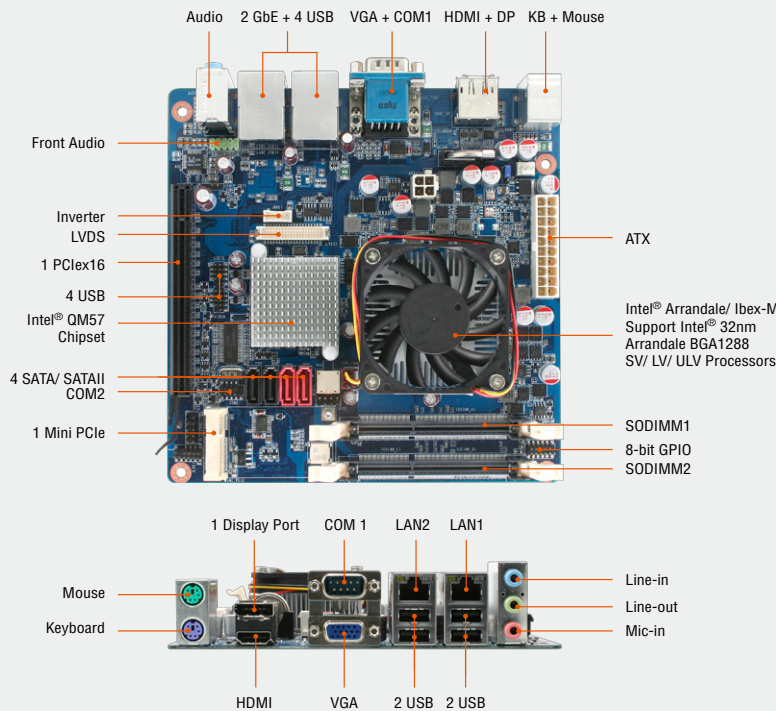




EMX-QM57

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
- RAID 0 & 1 Support

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

Specifications

System

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|--------------------------|--|
| • 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® BD82QM57 PCH |
| • 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

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|----------------------------------|--|
| • 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

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

Ethernet

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|---------|--|
| • LAN 1 | Intel® 82577LM 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 |
| • 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) |
| • Storage Temperature | -40 ~ 75°C (-40 ~ 167°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-QM57-520E-A1R

Intel® QM57 with i5-520E 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-P45-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

1 Embedded System

2 ETX/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

13 Peripherals

14 Index