

# Industrial Single Board Computer

## Micro ATX Motherboard

### ME-C79

Support 4<sup>th</sup> Generation Intel® Core™ i7, Core™ i5, Core™ i3 and Celeron CPU with DDR3L DIMM, CRT, DisplayPort, DVI, LVDS, Gigabit LAN, USB3.0, USB2.0, mini PCI card, Serial ATA3, mSATA, HD Audio



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|-----------------------------|--|
| <b>Form Factor</b>          | Micro ATX motherboard  |
| <b>CPU</b>                  | 4 <sup>th</sup> Generation Intel® Core™ i7, Core™ i5, Core™ i3, Celeron® Mobile Processor<br>Package type: FCBGA1364   |
| <b>Memory</b>               | 4 x DDR3L DIMM 1333/1600 MHz up to 32GB<br>Support Non-ECC, unbuffered memory only   |
| <b>Chipset</b>              | Intel® DH82QM87 PCH  |
| <b>Real Time Clock</b>      | Chipset integrated RTC with onboard lithium battery  |
| <b>Watchdog Timer</b>       | Generates a system reset with internal timer for 1min/s ~ 255min/s   |
| <b>Power Management</b>     | Supports ACPI 4.0 compliant  |
| <b>Serial ATA Interface</b> | 4 x serial ATA3 interface with 600MB/s transfer rate (Only for SATA3)<br>Support RAID 0, 1, 5, 10 and Intel Rapid Storage Technology   |
| <b>Display Interface</b>    | Intel® 4th Generation Core mobile processor integrated HD Graphics 4600<br>1 x CRT (Onboard 2x8 pin-header)<br>1 x DVI (Rear I/O Port)<br>1 x DisplayPort (Rear I/O Port)<br>1 x LVDS (Onboard 24-bit dual channel connector with +3.3/+5/+12V supply) |
| <b>Audio Interface</b>      | Realtek ALC888 HD Audio  |
| <b>LAN Interface</b>        | 1 x Intel® I210-AT Gigabit LAN<br>1 x Intel® I217-LM Gigabit LAN (Support iAMT9.0)   |
| <b>GPIO Interface</b>       | Onboard programmable 12 pin-header, 8-bit Digital I/O interface  |
| <b>Extended Interface</b>   | 1 x PCIe x16 slot, 1 x PCIe x4 slot, 2 x PCI slot , 1 x mini PCI slot,<br>1 x mSATA(Only for SATA3)  |
| <b>Internal I/O Port</b>    | 4 x RS232, 1 x SMBUS, 1 x GPIO, 2 x USB3.0, 4 x USB2.0, 1 x IrDA, 1 x CRT, 1 x LVDS,<br>1 x LCD inverter, 1 x LPC, 4 x Serial ATA3 , 1 x Parallel port and 1 x Front panel Audio   |
| <b>External I/O Port</b>    | 1 x PS/2, 2 x LAN, 1 x DVI, 1 x DisplayPort, 4 x USB3.0, 1 x RS232/422/485, 1 x RS232,<br>and 1 x HD Audio   |
| <b>Power Requirement</b>    | Standard 24-pin ATX power supply (20-pin is compatible) and P4 4-pin 12V   |
| <b>Dimension</b>            | 244mm x 244mm  |
| <b>Temperature</b>          | Operating within 0~60 centigrade<br>Storage within -20~85 centigrade   |

#### Ordering Code

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|------------------|---|
| <b>ME-C7917L</b> | <b>i7-4700EQ Mobile Processor</b> , Onboard CRT, LVDS, DVI, DisplayPort, SATA3, USB2.0, USB3.0, HD Audio ,LAN , SMBUS, LPC, GPIO, IrDA, PS/2, mini PCI, mSATA, LPT.     |
| <b>ME-C7917P</b> | <b>Celeron 2002E Mobile Processor</b> , Onboard CRT, LVDS, DVI, DisplayPort, SATA3, USB2.0, USB3.0, HD Audio ,LAN , SMBUS, LPC, GPIO, IrDA, PS/2, mini PCI, mSATA, LPT. |

