

# Industrial Single Board Computer

## Mini-ITX motherboard

### LV-67M

Support 4<sup>th</sup> Generation Intel® Core™ i7, Core™ i5, Core™ i3 Mobile Processor with DDR3L SO-DIMM, CRT, DVI, LVDS, Display Port, Gigabit LAN, USB2.0 & 3.0, PCIE x16, PCIE mini card, mSATA, Serial ATA3, HD Audio.



<b>Form Factor</b>	Mini-ITX motherboard
<b>CPU</b>	4th Generation Intel® Core™ i7, Core™ i5, Core™ i3 Mobile Processor Package type: FCBGA1364
<b>Memory</b>	2 x DDR3L SO-DIMM 1333/1600 MHz up to 16GB 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 Support RAID 0, 1, 5, 10 and Intel Rapid Storage Technology. (not support SATA2)
<b>Integrated Graphics</b>	Intel® HD Graphics 4600 Technology
<b>LVDS Interface</b>	Onboard 24-bit dual channel LVDS connector with +3.3V/+5V/+12V supply
<b>Display port Interface</b>	Onboard Display port connector
<b>DVI interface</b>	Onboard DVI connector
<b>Audio Interface</b>	Realtek ALC888 HD Audio
<b>LAN Interface</b>	1 x Intel® I210 Gigabit LAN 1 x Intel® I217-LM Gigabit LAN (Support iAMT9.0)
<b>GPIO Interface</b>	Onboard programmable 8-bit Digital I/O interface
<b>Expansion Interfaces</b>	1 x PCIE x16 slot, 2 x PCIE mini card socket, 1 x SIM socket (Optional support mSATA(only for SATA3) for Mini_Card1)
<b>Internal I/O Port</b>	4 x RS232, 1 x SMBUS, 1 x GPIO, 4 x USB2.0 ports, 2 x USB3.0 ports, 1 x IrDA, 1 x CRT , 1 x LVDS, 1 x LPC, 4 x Serial ATA3, 1 x Front panel Audio and 1 x CDIN
<b>External I/O Port</b>	1 x PS/2, 2 x LAN ports, 1 x DVI , 1 x Display Port, 4 x USB3.0 ports, 1 x RS232/422/485, 1 x RS232 and 1 x HD Audio
<b>Power Requirement</b>	Standard 24-pin ATX power supply or 9~24V full range DC Input
<b>Dimension</b>	170mm x 170mm (L x W)
<b>Temperature</b>	Operating within 0~60 centigrade Storage within -20~85 centigrade

#### Ordering

#### LV-67M17L

i7-4700EQ Mobile Processor, Onboard CRT, LVDS, DVI, Display Port, LAN, USB2.0, USB3.0, HD Audio ,SATA3, SMBUS, LPC, SIM, GPIO, IrDA, PCIE x16 and PCIE mini card, mSATA.

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