

# Industrial Single Board Computer

## Mini-ITX Motherboard

### LV-67N

Support 4<sup>th</sup> Generation Intel® Core™ i7, Core™ i5, Core™ i3, Celeron and Pentium CPU with Onboard VGA, DVI, LVDS, Display port, HD Audio, Serial ATAIII, USB3.0 & 2.0, Gigabit LAN, PCIE X16, PCIE Mini card, mSATA



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|-------------------------------|--|
| <b>Form Factor</b>            | Mini-ITX motherboard   |
| <b>CPU</b>                    | Supports 4 <sup>th</sup> Generation Intel® Core™ i7/ i5/ i3/Celeron/Pentium Desktop Processor.<br>Package type: FCLGA1150  |
| <b>Memory</b>                 | Two DDR3/DDR3L (support 1.5V) 1333/1600 DIMM up to 16GB  |
| <b>Chipset</b>                | Intel® Q87 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>   | Intel® Q87 PCH built-in 4 x Serial ATAIII interface up to 600MB/s Support RAID 0, 1, 5, 10 and Intel Rapid Storage Technology.(not support SATA II device)       |
| <b>VGA Interface</b>          | Intel® Clear Video integrated HD Graphics Technology   |
| <b>DVI Interface</b>          | Onboard DVI connector  |
| <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>Audio Interface</b>        | Intel® integrated Q87 with Realtek ALC888 HD Audio.  |
| <b>LAN Interface</b>          | 1 x Intel® I210 Gigabit LAN<br>1 x Intel® I217-LM Gigabit LAN  |
| <b>GPIO interface</b>         | Onboard programmable 8-bit Digital I/O interface.  |
| <b>Extended Interface</b>     | One PCIE X 16 slot, Two PCIE Mini card, One SIM socket<br>(Optional support mSATA(SATAIII) for Mini_Card1)   |
| <b>Internal I/O Port</b>      | 2 x RS232, 1 x GPIO port, 1 x Audio connector, 1 x IrDA connector, 1 x SMBUS connector, 1 x CRT, 1 x LVDS, 1 x LPC, 4 x USB2.0 and 2 x USB3.0 ports, 4 x SATAIII |
| <b>External I/O Port</b>      | 1 x PS/2 Keyboard/Mouse Port, 1 x RS232, 1 x RS232/422/485, 1 x DVI port, 1 x Display port, 2 x RJ45 LAN ports and 4 x USB3.0 ports.                             |
| <b>External Audio</b>         | Line-in, MIC-in, Front, Rear, Center/Subwoofer.  |
| <b>Power Requirement</b>      | Standard 24-pin ATX power supply (20-pin is compatible) and P4 4-pin 12V   |
| <b>Dimension</b>              | 170mm x 170mm (L x W)  |
| <b>Temperature</b>            | Operating within 0~60 centigrade<br>Storage within -20~85 centigrade   |

#### Ordering Code

**LV-67N** Onboard DVI, Display Port, CRT, LVDS, 2 x Gigabit LAN, USB3.0 & 2.0, Serial Port, SATAIII, IrDA, Realtek HD Audio, PCIE Mini card, PCIE x16, SMBUS, GPIO, SIM, LPC, mSATA.

