

# Mini-ITX Motherboard

## LV-670

Support Intel® Processor J1900/N2930/E3845 CPU with Onboard VGA, DVI, 2 x LVDS, Display port, HD Audio, Serial ATAII, USB3.0 & 2.0, Gigabit LAN, PCIE X16, PCIE Mini card, mSATA



<b>Form Factor</b>	Mini-ITX motherboard
<b>CPU</b>	Intel® Processor J1900/N2930/E3845, package type FCBGA1170
<b>Memory</b>	2 x DDR3L (support 1.35V) 1066/1333 DIMM up to 8GB
<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 5.0 compliant
<b>Serial ATA Interface</b>	2 x serial ATA interface with 300MB/s(3Gb/s) transfer rate (1 x CFast and 1 x SATAII is for option)
<b>VGA Interface</b>	Intel® Clear Video integrated HD Graphics Technology
<b>DVI Interface</b>	Onboard DVI connector. (DVI and LVDS1 can't be enabled simultaneously)
<b>LVDS Interface</b>	2 x Onboard 24-bit dual channel LVDS connector with +3.3V/+5V/+12V supply
<b>Display port Interface</b>	Onboard Display port connector. (Display port and LVDS2 can't be enabled simultaneously)
<b>Audio Interface</b>	Realtek ALC262 High Definition Audio Codec
<b>LAN Interface</b>	2 x Intel® I210 Gigabit LAN
<b>GPIO interface</b>	Onboard programmable 8-bit Digital I/O interface.
<b>Extended Interface</b>	One PCIE X16 slot(Only support 1 Lane), 1 x PCIE Mini card or mSATA, 1 x SIM socket (CFast and mSATA can't be enabled simultaneously)
<b>Internal I/O Port</b>	4 x RS232, 1 x GPIO, 1 x Audio connector, 1 x SMBUS connector, 1 x CRT, 2 x LVDS, 1 x LPC, 2 x USB 2.0(XHCI) and 2 x SATAII
<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, 1 x USB 3.0(XHCI)/2.0(EHCI) port, 3 x USB 2.0 ports(EHCI).
<b>External Audio</b>	Line-in, MIC-in, Line-out
<b>Power Requirement</b>	Standard 24-pin ATX power supply or 6~27V full range DC Input
<b>Dimension</b>	170mm x 170mm (L x W)
<b>Temperature</b>	Operating within 0~60 °C (for LV-670J and LV-670N serial) Operating within -40~75 °C (for LV-670E serial)

### Ordering Code

#### LV-670JIP

Art. No. 140712

Intel Celeron Processor J1900 (2M Cache, 2.42GHz), DVI, Display Port, CRT, Gigabit LAN, USB3.0 & 2.0, Serial Port, SATAII, Audio, PCIE Mini card, PCIE x16 (only support 1 Lane), SMBUS, GPIO, SIM, LPC, mSATA

#### LV-670EIP

Art. No. 140716

Intel Atom Processor E3845 (2M Cache, 1.91GHz), DVI, Display Port, CRT, Gigabit LAN, USB3.0 & 2.0, Serial Port, SATAII, Audio, PCIE Mini card, PCIE x16 (only support 1 Lane), SMBUS, GPIO, SIM, LPC, mSATA

<b>LV-67ONIP</b> Art. No. 140715	Intel Celeron Processor N2930 (2M Cache, 2.16GHz), DVI, Display Port, CRT, Gigabit LAN, USB3.0 & 2.0, Serial Port, SATAII, Audio, PCIE Mini card, PCIE x16 (only support 1 Lane), SMBUS, GPIO, SIM, LPC, mSATA
<b>LV-67OJX2</b> Art. No. 140717	Intel Celeron Processor J1900 (2M Cache, 2.42GHz), 2 x LVDS, CRT, Gigabit LAN, USB3.0 & 2.0, Serial Port, SATAII, Audio, PCIE Mini card, PCIE x16 (only support 1 Lane), SMBUS, GPIO, SIM, LPC, mSATA
<b>LV-67OEX2</b> Art. No. 140721	Intel Atom Processor E3845 (2M Cache, 1.91GHz), 2 x LVDS, CRT, Gigabit LAN, USB3.0 & 2.0, Serial Port, SATAII, Audio, PCIE Mini card, PCIE x16 (only support 1 Lane), SMBUS, GPIO, SIM, LPC, mSATA
<b>LV-67ONX2</b> Art. No. 140720	Intel Celeron Processor N2930 (2M Cache, 2.16GHz), 2 x LVDS, CRT, Gigabit LAN, USB3.0 & 2.0, Serial Port, SATAII, Audio, PCIE Mini card, PCIE x16 (only support 1 Lane), SMBUS, GPIO, SIM, LPC, mSATA