

Industrial Single Board Computer

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



Form Factor	Mini-ITX motherboard
CPU	Intel® Processor J1900/N2930/E3845, package type FCBGA1170
Memory	2 x DDR3L (support 1.35V) 1066/1333 DIMM up to 8GB
Real Time Clock	Chipset integrated RTC with onboard lithium battery
Watchdog Timer	Generates a system reset with internal timer for 1min/s ~ 255min/s
Power Management	Supports ACPI 5.0 compliant
Serial ATA Interface	2 x serial ATA interface with 300MB/s(3Gb/s) transfer rate (1 x CFAST and 1 x SATAII is for option)
VGA Interface	Intel® Clear Video integrated HD Graphics Technology
DVI Interface	Onboard DVI connector. (DVI and LVDS1 can't be enabled simultaneously)
LVDS Interface	2 x Onboard 24-bit dual channel LVDS connector with +3.3V/+5V/+12V supply
Display port Interface	Onboard Display port connector. (Display port and LVDS2 can't be enabled simultaneously)
Audio Interface	Realtek ALC262 High Definition Audio Codec
LAN Interface	2 x Intel® I210 Gigabit LAN
GPIO interface	Onboard programmable 8-bit Digital I/O interface.
Extended Interface	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)
Internal I/O Port	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
External I/O Port	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).
External Audio	Line-in, MIC-in, Line-out
Power Requirement	Standard 24-pin ATX power supply or 6~27V full range DC Input
Dimension	170mm x 170mm (L x W)
Temperature	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	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	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

Taiwan Commate Computer Inc.

19F., No.94, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 22102, Taiwan.

TEL: +886-2-26963909

Website:www.commell.com.tw

FAX: +886-2-26963911

E-mail:info@commell.com.tw

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LV-67ONIP	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
LV-67OJX2	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
LV-67OEX2	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
LV-67ONX2	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

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8F, 19F NO. 94, Sec. 1, Shin Tai Wu Rd., Hsi Chih, Taipei Shien, Taiwan.

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