

# Industrial Single Board Computer

## Nano-ITX Motherboard LN-D70



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

<b>Form Factor</b>	Nano-ITX motherboard.
<b>CPU</b>	Bay Trail Intel® Celeron™ J1900 / N2930 and Atom™ E3845 Mobile Processor. Package Type: FCBGA1170.
<b>Memory</b>	1 x DDR3L (support 1.35V) 1066/1333 SO-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 SATAII(3Gb/s), 2 x SATAIII(6Gb/s).
<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>	1 x Intel® I210 Gigabit LAN.
<b>GPIO interface</b>	Onboard programmable 8-bit Digital I/O interface.
<b>Extended Interface</b>	1 x PCIE Mini card or mSATA, 1 x SIM socket.
<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 and 2 x SATAII, 2 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, 1 x RJ45 LAN ports, 1 x USB 3.0(XHCI) port, 1 x USB 2.0 port.
<b>Power Requirement</b>	6~27V full range DC Input.
<b>Dimension</b>	120mm x 120mm. (L x W)
<b>Temperature</b>	Operating within 0~60 °C.(for LN-D70J and LN-D70N serial) Operating within -40~75 °C.(for LN-D70E serial)
<b>Ordering Code</b>	
<b>LN-D70JIP</b>	Intel Celeron Processor J1900 (2M Cache, 2.42GHz), DVI, Display Port, CRT, Gigabit LAN, USB3.0 & 2.0, Serial Port, SATAII, SATAIII, Audio, PCIE Mini card, , SMBUS, GPIO, SIM, LPC, mSATA.
<b>LN-D70EIP</b>	Intel Atom Processor E3845 (2M Cache, 1.91GHz), DVI, Display Port, CRT, Gigabit LAN, USB3.0 & 2.0, Serial Port, SATAII, SATAIII, Audio, PCIE Mini card, SMBUS, GPIO, SIM, LPC, mSATA.

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<b>LN-D70NIP</b>	Intel Celeron Processor N2930 (2M Cache, 2.16GHz), DVI, Display Port, CRT, Gigabit LAN, USB3.0 & 2.0, Serial Port, SATAII, SATAIII, Audio, PCIE Mini card, SMBUS, GPIO, SIM, LPC, mSATA.
<b>LN-D70JX2</b>	Intel Celeron Processor J1900 (2M Cache, 2.42GHz), 2 x LVDS, CRT, Gigabit LAN, USB3.0 & 2.0, Serial Port, SATAII, SATAIII, Audio, PCIE Mini card, SMBUS, GPIO, SIM, LPC, mSATA.
<b>LN-D70EX2</b>	Intel Atom Processor E3845 (2M Cache, 1.91GHz), 2 x LVDS, CRT, Gigabit LAN, USB3.0 & 2.0, Serial Port, SATAII, SATAIII, Audio, PCIE Mini card, SMBUS, GPIO, SIM, LPC, mSATA.
<b>LN-D70NX2</b>	Intel Celeron Processor N2930 (2M Cache, 2.16GHz), 2 x LVDS, CRT, Gigabit LAN, USB3.0 & 2.0, Serial Port, SATAII, SATAIII, Audio, PCIE Mini card, SMBUS, GPIO, SIM, LPC, mSATA.

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