



LV-6714 – Mini ITX Motherboard for 12th Generation Intel® Alder Lake S Processors

Intel's® 12th Generation Alder Lake introduces the Q670 Chipset and enhanced features perfect for graphic intensive high, performance applications like Surveillance, Medical Computing, Digital Signage and Industrial Automation. With multiple M.2 slots, including a B-Key for 4G/5G modules, the LV-6714 allows for multiple options for storage and expansion. This board also features the PCIe Gen5, allowing for the fastest and newest add on cards. HDMI's, Display Ports, and onboard LVDS give you many options for video with 4K resolution through onboard UHD Graphics. This board can also support legacy VGA through an add on card, making it a good upgrade option for discontinued boards.

SPECIFICATIONS

CPU	12th Generation Alder Lake S
Memory Type	2 x DDR5 DIMM 4800 MHz, supports Non-ECC unbuffered memory only
Memory Slots	2
Maximum Memory Supported	64GB
Audio	Realtek ALC888S HD Audio
Integrated Graphics	Intel® UHD Graphics 770/730/710
Watchdog Timer	Generates a system reset with internal timer for 1 min/s ~ 255min/s
Serial ATA (SATA)	3 x SATA3
Video	1 x LVDS (onboard 18/24-bit single/dual channel +3.3V/+5V/+12V), 2 x HDMI, 2 x DisplayPort (VGA supported through adapter)
TPM	Yes; fTPM
LAN Ports	1 x Intel® I219-LM Gigabit LAN PHY (Support iAMT16.0), 1 x Intel® I226-LM Gigabit LAN
Extended Interface	1 x M.2 2230 E-Key (Wi-Fi and Bluetooth), 1 x M.2 2280 M-Key (supports PCIe Gen4 and SATA), 1 x M.2 3042 B-Key (4G / 5G module and SATA), 1 x PCIe X16 slot (supports PCIe Gen5)
Internal I/O	3 x SATA3, 4 x RS232, 2 x USB2.0, 1 x LVDS, 1 x LCD inverter connector , 1 x GPIO ,1 x Audio, 1 x SMBus
Rear I/O	2 x HDMI, 2 x DisplayPort, 1 x Audio, 2 x LAN, 6 x USB3.2 Gen2, 2 x RS232/RS422/RS485
Power Requirement	Standard 24-pin ATX power supply and 4-pin 12V
Dimensions	170 mm x 170 mm
Operating Temperature	0 ~ 60° C (32 ~ 140° F)

Storage Temperature	-20 ~ 80 °C (-4 ~ 176 °F)
Relative Humidity	10%~90%, non-condensing
OS Software Supported	Windows 10 Professional 64-bit, Windows 11
Global P/N / SKU	2809152

Ordering Options

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