Mini-ITX Desktop Motherboard

12th & 13th & 14th Gen Intel® Core™ Desktop Processors

LV-6714

Features

- Support 12th & 13th & 14th Gen Intel® Core™ Desktop Processors
- 2 x DDR5 DIMM 4800 MHz up to 64GB
- Integrated DisplayPort, HDMI, LVDS for four display support
- 1 x Intel® Gigabit LAN PHY, 1 x Intel® 2.5 Gigabit LAN
- 3 x SATA3, 2 x USB2.0, 6 x COM, 1 x SIM Slot, 6 x USB3.2 Gen2
- 1 x M.2 2230 Key E for Wi-Fi and Bluetooth
- 1 x M.2 2280 Key M support PCIe Gen4 or SATA
- 1 x M.2 3042 Key B for 4G / 5G module or SATA
- 1 x PCIe x16 Slot support PCIe Gen5
- Support Watchdog Timer, 4K resolution
- Standard 24-pin ATX power supply and 4-pin 12V

System

Processor	Support 12th & 13th & 14th Gen Intel® Core™ Desktop Processors FCLGA1700 package (Support up to 65W TDP CPU)
Chipset	Intel® Q670E
Memory	2 x DDR5 DIMM 4800 MHz up to 64GB, Support Non-ECC, unbuffered memory only
Watchdog Timer	Generates a system reset with internal timer for 1 min/s ~ 255 min/s
Real Time Clock	Chipset integrated RTC with onboard lithium battery
Expansion	1 x M.2 2230 Key E for Wi-Fi and Bluetooth 1 x M.2 2280 Key M support PCIe Gen4 or SATA 1 x M.2 3042 Key B for 4G / 5G module or SATA 1 x SIM slot 1 x PCIe X16 slot support PCIe Gen5

Graphics

Chipset	Intel® UHD Graphics 770 / 730 / 710
Display Interface	1 x LVDS (Note1), 2 x HDMI, 2 x DisplayPort(Note2)

LAN

Chip	1 x Intel® I219-LM Gigabit LAN PHY (Support iAMT16.0) 1 x Intel® I226-LM Gigabit LAN

I/O

Serial ATA	3 x SATA3
Audio	Realtek ALC888S HD Audio
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, 1 x SIM slot
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

Mechanical & Environmental

Power Requirement	Standard 24-pin ATX power supply and 4-pin 12V
Size	170mm x 170mm (L x W)
Temperature	Operating within 0°C~60°C (32°F~140°F) Storage within -20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90%, non-condensing

Ordering Code

LV-6714	12th & 13th & 14th Gen Intel® Core™ Desktop Processors , Q670E, support HDMI, DP, LVDS

Note1: Onboard 18/24-bit single/dual channel +3.3V/ +5V/ +12V LVDS

Note2: Add ADP-3355 supports VGA or Add ADP-3460 supports 2nd LVDS, please contact with our sales for OEM version.

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