



LV-6718 – Mini-ITX Motherboard for Intel® Core™ Ultra Series 3 Processors

The LV-6718 is based on Intel® Graphics, Technology that provides high-end media and graphics capabilities for devices that display videos, 2D/3D graphics and interactive content. Displays can be connected via one LVDS, one HDMI, and one DP++ for display and can be controlled simultaneously for advanced solutions like imaging, machine vision and digital signage applications. The LV-6718 offers a large array of features including high-speed data transfer interfaces such as 3 x USB3.2 Gen2, equipped with double Gigabit Ethernet and comes with 4 x RS232 and 2 x RS232/422/485, 3 x USB2.0, Intel® HD Audio, and 2 x M.2 (Key M 2280), 1 x M.2 (Key E 2230), 1 x PCIe X16 slot, 1 x Type-C (DP Alt Mode), 1 x 10G LAN.

SPECIFICATIONS

CPU	intel® Core™ Ultra Series 3 Processors (PTL-H Platform)
CPU Socket	FCBGA2540
Memory Slots	2, DDR5 SO-DIMM 7200MHz
Maximum Memory Supported	128GB
Chipset	Intel® W880
Audio	Realtek ALC888S HD Audio
Video	18/24-bit dual channel LVDS connector with +3.3V/+5V/+12V supply, DisplayPort 1.4a, HDMI 2.1
Watchdog Timer	Generates a system reset with internal timer for 1 min/s ~ 255 min/s
LAN Ports	2 x Intel® 2.5G LAN, 1 x Intel® 10G LAN
Storage	1 x M.2 Key M 2280 support PCIe Gen4 for NVMe, 1 x M.2 Key M 2280 support PCIe Gen5 for NVMe
GPIO Interface	Onboard programmable 8-bit Digital I/O interface
Extended Interface	1 x M.2 Key E 2230 for Wi-Fi and Bluetooth, 1 x PCIe x16 slot support PCIe Gen5 x8
Rear I/O	3 x USB3.2 Gen2, 1 x USB2.0, 2 x LAN, 2 x RS232/422/485, 1 x HDMI, 1 x DisplayPort ++, 1 x Line-in, 1 x Line-out, 1 x MIC-in, 1 x Type-C (DP Alt Mode).

Internal I/O

4 x RS232, 2 x USB2.0, 1 x 10G LAN, 1 x GPIO, 1 x SMBus, 1 x Audio (MIC-in & Line-out), 1 x LCD inverter, 1 x LVDS

Power Requirement

Standard 24-pin ATX power supply (20-pin is compatible) or DC 9~35V full range support

Dimensions

6.69" x 6.69" (170mm x 170mm)

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 11 64-bit

Global P/N / SKU

2809208

Ordering Options

LV-67187-10G (SKU# 2809208A): with BOTH 2.5G and 10G LAN LV-67187 (SKU# 2809208B): with ONLY 2.5G LAN

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