LV-6716 – Mini-ITX Motherboard with Intel® Meteor Lake Ultra H Processor

The LV-6716 uses Intel's latest gen Meteor Lake processor and up to 64GB of DDR5 5600MHz RAM to provide a robust solution for your Automation, IoT, Surveillance and Industrial computing needs. The I/O on this board includes LVDS/EDP, HDMI, Displayport and HDMI or EDP for up to four display output. The board also provides 2 x M.2 2280 slots for storage and an M.2 2230 slot for WiFi/Bluetooth. The LV-6716 can be powered by a standard 24-pin ATX power supply or 9-35V DC input giving you flexibility for your power source with your integration needs.

SPECIFICATIONS

CPU	Intel® Core™ Meteor Lake Ultra H Processor
Memory Type	DDR5 SO-DIMM 5600MHz
Memory Slots	2
Maximum Memory Supported	64GB
Audio	Realtek ALC888S HD Audio
Integrated Graphics	Intel® Arc™ Graphics
Watchdog Timer	Generates a system reset with internal timer for 1 min/s ~ 255 min/s
Serial ATA (SATA)	2 x SATA3 (mSATA and SATA2 can't be use at the same time)
Video	1 x LVDS/EDP, 1 x HDMI, 1 x DisplayPort, 1 x HDMI/EDP (HDMI(B) and EDP can't be used at the same time.)
LAN Ports	3 x Intel® I226-LM Gigabit LAN (up to 2.5GbE)
Extended Interface	1 x MiniPCIe (supports mSATA, mSATA and SATA2 can't be used at the same time), 1 x SIM slot, 2 x M.2 2280 Key M PCIe Gen4 NVMe, 1 x M.2 2230 Key E WiFi/Bluetooth, 1 x PCIe x16 Slot (Gen5 X8)

Internal I/O	2 x SATA3, 4 x RS232, 2 x USB2.0, 1 x GPIO, 1 x SMBus, 1 x Audio, 1 x LAN, 1 x LCD inverter, 1 x LVDS/EDP, 1 x EDP(HDMI(B) and EDP can't be used at the same time), 1 x SIM slot
Rear I/O	4 x USB3.2 Gen2, 2 x USB2.0, 2 x LAN, 2 x RS232/422/485, 1 x Audio, 2 x HDMI, 1 x DisplayPort
Power Requirement	Standard 24-pin ATX power supply or DC input 9~35V
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, Windows 11
Global P/N / SKU	2809186

Ordering Options

LV-6716H7 (SKU# 2809186): With Ultra 165H + Cooler fan, support HDMI, LVDS, DP 2.5G LAN Note1: mSATA and SATA2 can't use at the same time Note2: Onboard 18/24-bit single/dual channel +3.3V/ +5V/ +12V LVDS Note3: HDMI(B) and EDP can't use at the same time