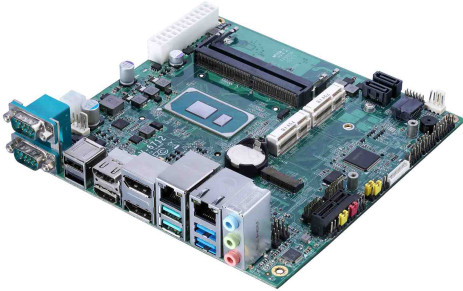


# LV-6712



## Features

- Onboard Intel® Tiger Lake UP3 Processor
- 2 x DDR4 SO-DIMM 3200 MHz up to 64GB
- Integrated DisplayPort, HDMI, LVDS for four display support
- 1 x Intel® Gigabit PHY LAN, 1 x Intel® 2.5 Gigabit LAN
- 2 x MiniPCIe, one support mSATA
- 1 x M.2 2280 Key M support PCIe Gen4 for NVMe
- 2 x SATA3, 4 x USB2.0, 4 x USB3.2 Gen2, 6 x COM
- 1 x GPIO, 1 x PS/2, 1 x PCIe x1 Slot,
- Support Watchdog Timer
- Support OpenVINO for AI Computing

## System

|                 |  |
|-----------------|--|
| Processor       | Intel® Tiger Lake UP3 Processor<br>FCBGA1449 package   |
| Memory          | 2 x DDR4 SO-DIMM 3200 MHz up to 64GB,<br>Support Non-ECC, unbuffered memory  |
| Watchdog Timer  | Generates a system reset with internal timer for<br>1 min/s ~ 255 min/s  |
| Real Time Clock | Chipset integrated RTC with onboard lithium battery  |
| Expansion       | 2 x MiniPCIe ( Minicard 2 support mSATA) <b>(Note1)</b><br>1 x M.2 (Key M 2280) support PCIe Gen4 for NVMe<br>1 x PCIe x1 Slot |

## Graphics

|                   |   |
|-------------------|---|
| Chipset           | Intel® Iris® Xe Graphics <b>(Note4)</b>             |
| Display Interface | 1 x LVDS <b>(Note2)</b> , 2 x HDMI, 2 x DisplayPort |

## LAN

|      |   |
|------|---|
| Chip | 1 x Intel® I219-LM Gigabit PHY LAN<br>(supports Intel® AMT 15.0)<br>1 x Intel® I225-LM Gigabit LAN (up to 2.5GbE) |
|------|---|

## I/O

|              |   |
|--------------|---|
| Serial ATA   | 2 x SATA3 <b>(Note1)</b>  |
| Audio        | Realtek ALC262 HD Audio   |
| Internal I/O | 2 x SATA3, 4 x RS232, 2 x USB2.0, 1 x GPIO ,<br>1 x PS/2, 1 x SMBus, 1 x Audio,<br>1 x LVDS <b>(Note2)</b> , 1 x LCD inverter |
| Rear I/O     | 4 x USB3.2 Gen2 , 2 x USB2.0, 2 x LAN,<br>2 x RS232/422/485, 1 x Audio<br>2 x HDMI, 2 x DisplayPort                           |

## Mechanical & Environmental

|                   |  |
|-------------------|--|
| Power Requirement | Standard 24-pin ATX power supply<br>or 4-pin DC 9~35V  |
| Size              | 170mm x 170mm (L x W)                                  |
| Temperature       | Operating within 0°C~60°C<br>Storage within -20°C~80°C |
| Relative Humidity | 10%~90%, non-condensing                                |

## Ordering Code

|          |   |
|----------|---|
| LV-67127 | With i7-1185G7E, support HDMI, LVDS, DP 2.5G LAN      |
| LV-6712C | With Celeron® 6305E , support HDMI, LVDS, DP 2.5G LAN |

**Note1:** mSATA and SATA3-2 can't use at the same time

**Note2:** Onboard 18/24-bit single/dual channel +3.3V/ +5V/ +12V LVDS

**Note3:** If you want to use other TGL UP3 CPU(i7-1185GRE, i5-1145GRE, i5-1145G7E, i3-1115GRE, i3-1115G4E), please contact with our sales.

**Note4:** Intel Iris Xe Graphics has to install two memory cards. The Chipset in i3-1115GRE, i3-1115G4E, Celeron® 6305E are Intel® UHD Graphics.