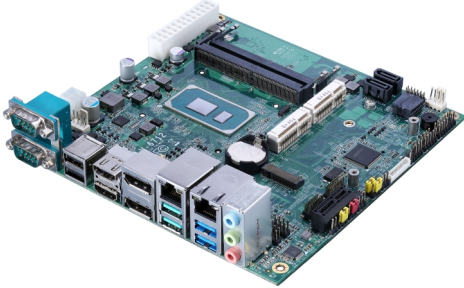


Intel® Tiger Lake UP3 Processor

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
- 2 x SATA3, 2 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

System

Processor	Intel® Tiger Lake UP3 Processor FCBGA1449 package
Memory	2 x DDR4 SO-DIMM 3200 MHz up to 64GB, Support Non-ECC, unbuffered memory
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	2 x MiniPCIe (Minicard 2 support mSATA) (Note1) 1 x M.2 (Key M 2280) Slot support PCIe Gen4 1 x PCIe x1 Slot
Graphics	
Chipset	Intel® Iris® Xe Graphics
Display Interface	1 x LVDS (Note2) , 2 x HDMI, 2 x DisplayPort
LAN	
Chip	1 x Intel® I219-LM Gigabit PHY LAN 1 x Intel® I225-LM Gigabit LAN (up to 2.5GbE)

I/O

Serial ATA	2 x SATA3 (Note1)
Audio	Realtek ALC262 HD Audio
Internal I/O	2 x SATA3, 4 x RS232, 2 x USB2.0, 1 x GPIO , 1 x PS/2, 1 x SMBus, 1 x Audio, 1 x LVDS (Note2) , 1 x LCD inverter
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, 2 x DisplayPort

Mechanical & Environmental

Power Requirement	Standard 24-pin ATX power supply or 4-pin DC 9~35V
Size	170mm x 170mm (L x W)
Temperature	Operating within 0°C~60°C 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	Art. N° 163878
LV-6712C	With Celeron® 6305E , support HDMI, LVDS, DP 2.5G LAN	Art. N° 163879

Note1: mSATA and SATA3-2 can't not 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.