



## Features

- Onboard Intel® Whiskey Lake U Processor
- 2 x DDR4 SO-DIMM 2400 MHz up to 32GB
- Integrated DisplayPort, HDMI, LVDS for Triple display support
- 1 x Intel® Gigabit PHY LAN, 1 x Intel® Gigabit LAN,
- 1 x MiniPCIe (support mSATA), 1 x M.2 (Key E)
- 2 x SATA3, 4 x USB2.0, 4 x USB3.1 Gen2, 4 x COM,
- 1 x GPIO, 1 x PS/2
- Support Watchdog Timer
- Support 4K resolution
- DC input 9~35V

## System

Processor	Intel® Whiskey Lake U Processor FCBGA1528 package
Memory	2 x DDR4 SO-DIMM 2400 MHz up to 32GB, 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 lithium battery
Expansion	1 x MiniPCIe (support mSATA) 1 x M.2 (Key E) for Wi-Fi and Bluetooth 2230mm

## Graphics

Processor	Intel® Gen 9.5 integrated HD Graphics
Display Interface	1 x DisplayPort( <b>optional</b> ), 1 x HDMI, 1 x LVDS ( <b>Note1</b> )

## LAN

Chip	1 x Intel® I219-LM Gigabit PHY LAN (Support iAMT12.0) 1 x Intel® I210-AT Gigabit LAN
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## I/O

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

## Mechanical & Environmental

Power Requirement	DC input 9~35V
Size	146mm x 101mm (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

LE-37N7:	With i7-8665UE + Cooler fan, support HDMI, LVDS, DP
LE-37NT7	With i7-8665UE + Cooler fan, support HDMI, LVDS, Header for VGA or 2 <sup>nd</sup> LVDS ( <b>Note2</b> )
ADP-3355:	DisplayPort to VGA module
ADP-3460:	DisplayPort to LVDS module

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

**Note2:** There are two modules ADP-3355 and ADP-3460; you can choose the one to support VGA or 2<sup>nd</sup> LVDS.

**Note3:** If you want to use other WHL U CPU(i5-8365UE,i3-8145UE,Celeron 4305UE), please contact with our sales.