

# Intel® Apollo Lake Series Processor

## LE-37H



## Features

- Intel® Apollo Lake Series Processor
- 1 x DDR3L SO-DIMM 1866 MHz up to 8GB
- Integrated HDMI, DisplayPort, LVDS for Triple display supports
- 2 x Intel® Gigabit LAN,
- 2 x MiniPCIe
- 2 x SATA3, 2 x USB2.0, 4 x USB3.0, 6 x COM, 1 x LPC
- 1 x GPIO, 1 x PS/2, 1 x SIM Slot, 1 x SD Card Slot
- Support Watchdog Timer
- Support 4K resolution
- DC input 6~35V

## System

Processor	Intel® Apollo Lake Series Processor N3350/N4200/x7-E3950, FCBGA1296 package
Chipset	Apollo Lake SoC
Memory	1 x DDR3L DIMM 1866 MHz up to 8GB, Support Non-ECC, unbuffered memory only
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 (Minicard1 support mSATA) 1 x SIM slot, 1 x SD Card slot

## Graphics

Chipset	Intel® HD Graphics
Display Interface	1 x LVDS (Note1) , 1 x HDMI, 1 x DisplayPort (optional)

## LAN

Chip	2 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 RS232, 2 x USB2.0, 1 x LPC 1 x GPIO , 1 x PS/2, 1 x SMBus , 1 x LVDS, 1 x LCD inverter, 1 x RS232/422/485, 1 x Audio,
Rear I/O	4 x USB3.0, 2 x LAN, 1 x HDMI, 1 x RS232, 1 x DisplayPort(optional)

## Mechanical & Environmental

Power Requirement	DC 6~35V
Size	146mm x 101mm (L x W)
Temperature	Operating within 0°C~60°C Storage within -20°C~80°C (For LE-37H N3350/N4200 Series) Operating within -40°C~85°C Storage within -40°C~85°C (For LE-37H x7-E3950 Series)
Relative Humidity	10%~90%, non-condensing

## Ordering Code

Art. N° 152228	LE-37HPN4S:	With N4200 + Heat Spreader, support HDMI, LVDS, DP
Art. N° 152229	LE-37HTN4S:	With N4200 + Heat Spreader, support HDMI, LVDS, Header for VGA or 2 <sup>nd</sup> LVDS (Note2)
Art. N° 152793	LE-37HPN3S:	With N3350 + Heat Spreader, support HDMI, LVDS, DP
Art. N° 152794	LE-37HTN3S:	With N3350 + Heat Spreader, support HDMI, LVDS, Header for VGA or 2 <sup>nd</sup> LVDS (Note2)
Art. N° 152795	LE-37HPN4F:	With N4200 + Cooler Fan, support HDMI, LVDS, DP
Art. N° 152796	LE-37HTN4F:	With N4200 + Cooler Fan, support HDMI, LVDS, Header for VGA or 2 <sup>nd</sup> LVDS (Note2)
Art. N° 152797	LE-37HPN3F:	With N3350 + Cooler Fan, support HDMI, LVDS, DP
Art. N° 152798	LE-37HTN3F:	With N3350 + Cooler Fan, support HDMI, LVDS, Header for VGA or 2 <sup>nd</sup> LVDS (Note2)
Art. N° 160310	LE-37HPEF	With x7-E3950 + Cooler Fan, support HDMI, LVDS, DP
Art. N° 160311	LE-37HTEF	With x7-E3950 + Cooler Fan, support HDMI, LVDS, Header for VGA or 2 <sup>nd</sup> LVDS (Note2)

ADP-3355NB: DisplayPort to VGA module, without bracket

ADP-3460E: DisplayPort to LVDS module

DSDM8GB-DDR3L-1600-SO-1.35V: DDR3L SO-DIMM 8GB 1600MHz 204PIN 1.35V

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.