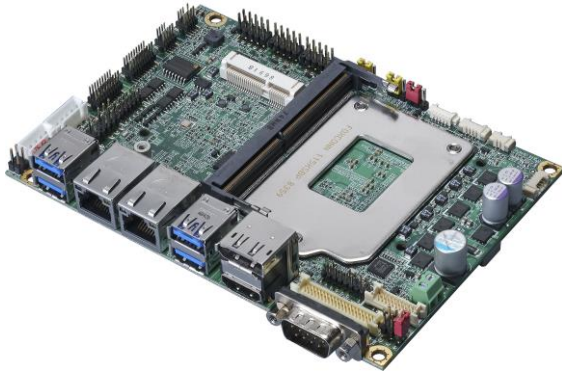# LS-37L

Features

- Support 8th & 9th Gen Intel® Core™ Desktop Processors
- 1 x DDR4 SO-DIMM 2666 MHz up to 16GB
- Integrated VGA, DVI, DisplayPort, HDMI, LVDS for Triple display support
- 1 x Intel® Gigabit PHY LAN, 1 x Intel® Gigabit LAN,
- 1 x MiniPCIe (support mSATA)
- 2 x SATA3, 4 x USB2.0, 4 x USB3.1 Gen2, 6 x COM,
- 1 x GPIO, 1 x PS/2
- Support Watchdog Timer
- Support 4K resolution
- DC input 9~25V

System

Processor	Support 8th & 9th Gen Intel® Core™ Desktop Processors, FCLGA1151 package (Support up to 65W TDP) (Note1)
Chipset	Intel® Q370
Memory	1 x DDR4 SO-DIMM 2666 MHz up to 16GB, Support Non-ECC, unbuffered memory (i3, Pentium, Celeron CPU support 2400 MHz only)
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)

Graphics

Processor	Intel® UHD Graphics
Display Interface	1 x DisplayPort(Optional), 1 x HDMI, 1 x DVI 1 x VGA, 1 x LVDS (Note2)

LAN

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

I/O

Serial ATA	2 x SATA3
Audio	Realtek ALC262 HD Audio
Internal I/O	2 x SATA3, 4 x USB2.0 3 x RS232, 2x RS232/485/422 1 x DVI, 1 x VGA , 1 x LVDS, 1 x LCD inverter, 1 x GPIO, 1 x Audio, 1 x PS/2, 1 x SMBus
Rear I/O	1 x DisplayPort, 1 x HDMI 4 x USB3.1 Gen2, 2 x LAN, 1 x RS232

Mechanical & Environmental

Power Requirement	DC input 9~25V
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

LS-37L: 8th & 9th Gen Intel® Core™ Desktop Processors, support HDMI, LVDS, VGA, DVI, DP
LS-37LT: 8th & 9th Gen Intel® Core™ Desktop Processors, support HDMI, LVDS, VGA, DVI, Header for 2nd VGA or 2nd LVDS (Note2)
ADP-3355: DisplayPort to VGA module
ADP-3460: DisplayPort to LVDS module

Note1: 8 cores TDP 65W CPU is not supported.(E.g. i7-9700E)
Note2: Onboard 18/24-bit single/dual channel +3.3V/ +5V/ +12V LVDS
Note3: There are two modules ADP-3355,ADP-3460; you can choose the one to support 2nd VGA or 2nd LVDS

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