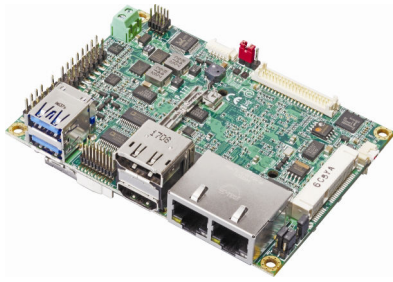


Intel® Apollo Lake Series Processor

LP-177



Features

- Intel® Apollo Lake Series Processor N3350/N4200
- 1 x DDR3L SO-DIMM 1866 MHz up to 8GB
- Integrated HDMI, DisplayPort, LVDS for Triple display supports
- 2 x Intel® Gigabit LAN, 1 x MiniPCie
- 1 x SATA3, 2 x USB2.0, 2 x USB3.0, 2 x COM, 1 x LPC, 1 x PS/2
- Support Watchdog Timer, 4K resolution
- DC input 5V±5%

System

Processor	Intel® Apollo Lake Series Processor N3350/N4200, FCBGA1296 package
Chipset	Apollo Lake SoC
Memory	1 x DDR3L SODIMM 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 lithium battery
Expansion	1 x MiniPCie (Minicard support mSATA)
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

I/O

Serial ATA	1 x SATA3
Audio	Realtek ALC262 HD Audio
Internal I/O	1 x SATA3, 2 x RS232, 2 x USB2.0, 1 x LPC, 1 x PS/2, 1 x SMBUS, 1 x LVDS, 1 x LCD inverter, 1 x Audio
Rear I/O	2 x USB3.0, 2 x LAN, 1 x HDMI, 1 x DisplayPort (Optional) .

Mechanical & Environmental

Power Requirement	DC input 5V±5%
Size	100 mm x 72mm (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

Art. No. 152360	LP-177PN4S	With N4200 + Heat spreader, support HDMI, LVDS, DP
Art. No. 152361	LP-177TN4S	With N4200 + Heat spreader, support HDMI, LVDS, Header for VGA or 2nd LVDS (Note2)
Art. No. 152362	LP-177PN3S	With N3350 + Heat spreader, support HDMI, LVDS, DP
Art. No. 152363	LP-177TN3S	With N3350 + Heat spreader, support HDMI, LVDS, Header for VGA or 2nd LVDS (Note2)
Art. No. 152371	LP-177PN4F	With N4200 + Cooler Fan, support HDMI, LVDS, DP
Art. No. 152372	LP-177TN4F	With N4200 + Cooler Fan, support HDMI, LVDS, Header for VGA or 2nd LVDS (Note2)
Art. No. 152377	LP-177PN3F	With N3350 + Cooler Fan, support HDMI, LVDS, DP
Art. No. 152378	LP-177TN3F	With N3350 + Cooler Fan, support HDMI, LVDS, Header for VGA or 2nd LVDS (Note2)
Art. No. 152380	ADP-3355NB	DP to VGA Adapter, without bracket
Art. No. 152287	ADP-3460	DP to LVDS Adapter (For 2nd LVDS)
Art. No. 148564	DC-DC3-5V Series	Power Converter Module with Heat spreader, convert wide range DC 6~30V input to DC 5V/ 30W
Auf Anfrage	LP-177P(T)N4S-8G	Same as LP-177P(T)N4S, with DDR3L/8G
Auf Anfrage	LP-177P(T)N3S-8G	Same as LP-177P(T)N3S, with DDR3L/8G
Auf Anfrage	LP-177P(T)N4F-8G	Same as LP-177P(T)N4F, with DDR3L/8G
Auf Anfrage	LP-177P(T)N3F-8G	Same as LP-177P(T)N3F, with DDR3L/8G

Note1: Onboard 18/24-bit single/dual channel LVDS connector with +3.3V/+5V supply

Note2: There are two modules (ADP3355,ADP3460), and you can choose one to support VGA or 2nd LVDS