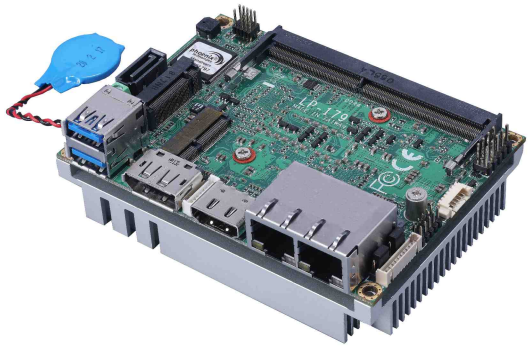
Pico-ITX Miniboard

Intel® Tiger Lake UP3 Processor

LP-179



Features

- Onboard Intel® Tiger Lake UP3 Processor
- 1 x DDR4 SO-DIMM 3200 MHz up to 32GB
- Integrated DisplayPort, HDMI,
- 1 x Intel® Gigabit PHY LAN, 1 x Intel® 2.5 Gigabit LAN
- 1 x M.2 (Key E 2230)
- 1 x M.2 (Key M 2280) support PCIe Gen4 for NVMe
- 1 x SATA3, 2 x USB2.0, 2 x USB3.2 Gen2, 2 x RS232,
- Support Watchdog Timer
- Support OpenVINO for AI Computing
- Support 4K resolution
- DC input 12V ±5%

System

Processor	Intel® Tiger Lake UP3 Processor FCBGA1449 package
Memory	1 x DDR4 SO-DIMM 3200 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 M.2 2230 (Key E) for Wi-Fi and Bluetooth 1 x M.2 2280 (Key M) support PCIe Gen4 for NVMe

Graphics

Processor	Intel® UHD Graphics
Display Interface	1 x DisplayPort, 1 x HDMI,

LAN

Chip	1 x Intel® I219-LM Gigabit PHY LAN (supports Intel® AMT 15.0) 1 x Intel® I225-LM Gigabit LAN (up to 2.5GbE)

I/O

Serial ATA	1 x SATA3
Audio	Realtek ALC262 HD Audio
Internal I/O	1 x SATA3, 2 x USB2.0, 1 x RJ45 LED Connector 2 x RS232, 1 x Audio, 1 x SMBus, 1 x Header for LVDS or VGA (Note1)
Rear I/O	1 x DisplayPort, 1 x HDMI, 2 x LAN 2 x USB3.2 Gen2,

Mechanical & Environmental

Power Requirement	DC input 12V±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

LP-1797:	With i7-1185G7E + Cooler fan, support HDMI, DP , Header for LVDS or VGA (Note1)
LP-179C:	With Celeron® 6305E + Cooler fan, support HDMI, DP, Header for LVDS or VGA (Note1)
ADP-3355:	DisplayPort to VGA module
ADP-3460E:	DisplayPort to LVDS module for LP-179.

Note1: Add ADP-3355 supports VGA or Add ADP-3460E supports LVDS.
Note2: If you want to use other TGL UP3 CPU(i7-1185GRE, i5-1145GRE, i5-1145G7E, i3-1115GRE, i3-1115G4E), please contact with our sales.
Note3: If you want to use more LVDS or VGA, please contact with our sales.

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