

BIRPL-PAT Industrial PC



- Intel® Core i5-1345URE/ i5-1335U/ i5-1235U
- Supports quad display : LVDS/ eDP, HDMI®, DP++, 2xUSB-C
- Support 2 x DDR5-5200 MHz SO-DIMM, up to 96GB
- Support M.2 Hailo-8™ AI Accelerator, up to 26 TOPS (optional)
- 2 x Intel i226 2.5G LAN
- 4 x USB3.2 Gen2x2, 2 x USB2.0
- 3 x RS232/422/485, 1 x RS232
- 1x M.2 B key 3042/3052 support PCIe3.0 x1 + USB3.2 w/ SIM slot for 4G/5G module
- 1x M.2 M key 2242/2260/2280 support PCIe4.0 x4 for NVMe storage
- 1x M.2 E key 2230 support PCIe3.0 x1 +USB2.0 for WIFI/BT module
- Support wide range temperature -40 ~ 85 degree C
- DC-IN 9~24V

Specification

CPU SUPPORT	Intel® Raptor Lake P/ Alder Lake P series Processor Intel Core i5-1235U Intel Core i5-1335U Intel Core i5-1345URE (wide range temperature support)
MEMORY	2 x 262-pin socket support DDR5-5200Mhz SO-DIMM, up to 96GB
EXPANSION SLOT	1 x M.2 B key 3042/3052 support PCIe3.0 x1 + USB3.2 w/ SIM slot for 4G/5G module 1 x M.2 M Key 2242/2260/2280 support PCIe4.0 x4 for NVMe storage 1 x M.2 E Key 2230 support PCIe3.0 x1 + USB2.0, support WIFI/BT module
GRAPHICS	Intel® Integrated Graphics, support quad display - 1 x HDMI® connector (4096x2160@60Hz) - 1 x DP++ connector (4096x2160 @60Hz) - 2 x USB-C connector (4096x2160 @60Hz , not support wide range temperature) - 1 x LVDS/eDP (1920 x 1200@60Hz, share with the same connector, LVDS/eDP switch mode by BIOS)
AUDIO	Audio Codec: ALC897 w/ ALC105, support 4 ohm 2W amplifier (not support wide range temperature)
LAN	Dual 2.5GbE 1 x Intel i226-V + 1 x Intel i226-LM 2 x Intel i226-IT opt for wide range temperature
SUPER I/O CHIP	ITE IT8786

REAR I/O	<p>1 x HDMI® connector 1 x DP connector 2 x USB-C combo with USB3.2 Gen2 Type A connector 2 x RJ45 connectors, support 2.5G</p>
INTERNAL I/O	<p>Expansion slots: - 1 x M.2 M key 2242/2260/2280 - 1 x M.2 B key B 3042/3052 w/SIM Slot - 1 x M.2 E key E 2230 SATA: - 1 x SATA3 7pin connector - 1 x 1*4 pin SATA power box header Display: - 1 x 2*20 pin LVDS/eDP box header (share with the same connector, LVDS/eDP switch mode by BIOS) - 1 x 1*8 pin LCD backlight control box header (12V/ 5V) - 1 x 2*3 pin LCD power select header (3.3V/5V/12V, default is 3.3V) Audio: (not support wide temperature) - 1 x 2*5 pin header for MIC-in, LINE-in, LINE-out - 1 x 1*4 pin box header for 4 ohm 2W amplifier speaker USB: - 1 x 2*5 pin header, support 2 x USB2.0 Power: - 1 x 1*2 pin phoenix connector , support DC-IN 9~24V Serial Port: - 3 x 2*5 pin RS232/422/485 box header(COM1-COM3) - 1 x 2*5 pin RS232 box header (COM4) - 4 x 1*3 pin COM power select header(NC/5V/12V, default is NC) Others: - 1 x buzzer (not support wide temperature) - 1 x 2*5 pin 8-bit DIO header - 1 x 1*4 pin CPU Fan header - 1 x 1*3 pin clear CMOS - 1 x 1*3 pin DIO power select header(12V/5V, default is 5V) - 1 x 2*7 pin front panel header - 1 x Power LED onboard for APCI power status - 1 x 1*3 pin AT/ATX mode select header (default is ATX) - TPM2.0 onboard</p>
DIMENSION	148 x 102 x 1.6 mm
ENVIRONMENT	<p>0°C ~ 60°C Humidity : 5% ~ 90% Wide range temperature: -40°C ~ 85°C Humidity : 5% ~ 90% (opt)</p>
OS SUPPORT	<p>Support Windows 10 IoT Enterprise 21H2/ 11 IoT Enterprise 24H2 or later version Support Ubuntu 22.04</p>

*The specification and pictures are subject to change without notice and the package contents may differ by area or your motherboard version!