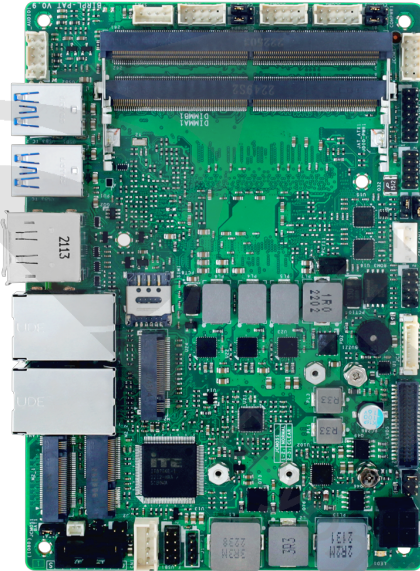


## BIRPL-PAT Industrial PC



- Intel® Raptor Lake P i3-1315URE/ i5-1345URE/ i5-1335U
- Supports quad display : LVDS/ eDP, 1xHDMI, 1x 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 GbE 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 Processor i5-1335U i3-1315URE/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 2.0 connector (4096x2160@60Hz) - 1 x DP++1.4 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	<ul style="list-style-type: none"> <li>1 x HDMI connector</li> <li>1 x DP connector</li> <li>2 x USB-C combo with USB3.2 Gen2 Type A connector</li> <li>2 x RJ45 connectors, support 2.5G</li> </ul>
INTERNAL I/O	<p>Expansion slots:</p> <ul style="list-style-type: none"> <li>- 1 x M.2 M key 2242/2260/2280</li> <li>- 1 x M.2 B key B 3042/3052 w/SIM Slot</li> <li>- 1 x M.2 E key E 2230</li> </ul> <p>SATA:</p> <ul style="list-style-type: none"> <li>- 1 x SATA3 7pin connector</li> <li>- 1 x 1*4 pin SATA power box header</li> </ul> <p>Display:</p> <ul style="list-style-type: none"> <li>- 1 x 2*20 pin LVDS/eDP box header (share with the same connector, LVDS/eDP switch mode by BIOS )</li> <li>- 1 x 1*8 pin LCD backlight control box header (12V/ 5V)</li> <li>- 1 x 2*3 pin LCD power select header (3.3V/5V/12V, default is 3.3V)</li> </ul> <p>Audio: ( not support wide temperature)</p> <ul style="list-style-type: none"> <li>- 1 x 2*5 pin header for MIC-in, LINE-in, Line-out</li> <li>- 1 x 1*4 pin box header for 4 ohm 2W amplifier speaker</li> </ul> <p>USB:</p> <ul style="list-style-type: none"> <li>- 1 x 2*5 pin header, support 2 x USB2.0</li> </ul> <p>Power:</p> <ul style="list-style-type: none"> <li>- 1 x 1*2 pin phoenix connector , support DC-IN 9~24V</li> </ul> <p>Serial Port:</p> <ul style="list-style-type: none"> <li>- 3 x 2*5 pin RS232/422/485 box header(COM1-COM3)</li> <li>- 1 x 2*5 pin RS232 box header (COM4)</li> <li>- 4 x 1*3 pin COM power select header(5V/12V, default is 5V)</li> </ul> <p>Others:</p> <ul style="list-style-type: none"> <li>- 1 x buzzer ( not support wide temperature)</li> <li>- 1 x 2*5 pin 8-bit DIO header</li> <li>- 1 x 1*4 pin CPU Fan header</li> <li>- 1 x 1*3 pin clear CMOS</li> <li>- 1 x 1*3 pin DIO power select header(12V/5V, default is 5V)</li> <li>- 1 x 2*7 pin front panel header</li> <li>- 1 x Power LED onboard for APCI power status</li> <li>- 1 x 1*3 pin AT/ATX mode select header (default is ATX)</li> <li>- TPM2.0 onboard</li> </ul>
DIMENSION	148 x 102 x 1.6 mm
ENVIRONMENT	<p>0°C ~ 60°C Humidity : 5% ~ 90%</p> <p>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</p> <p>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!**