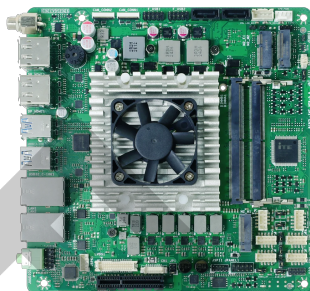


# BIPTL-IHT Industrial PC



- Onboard Intel® Panther Lake-H Processor
- Support Quad display: LVDS/2xHDMI®/2xDP
- Support DDR5-7200MHZ SO-DIMM, max 128GB
- 2 x 2.5G LAN
- 4 x USB2.0, 3 x USB3.2 Gen1, 1 x USB-C USB3.2 Gen2
- 8 bit GPIO, 6 x COM port
- 1 x M.2 B key 3042/3052 w/ SIM slot for 4G/5G module
- 1 x M.2 E key 2230 for WIFI/BT module
- 2 x M.2 M key M 2242/2280 for NVMe storage
- TPM2.0 onboard
- DC-IN 9-24V

## Specifcation

|                |                                                                                                                                                                                                                                                                                                                |
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| CPU SUPPORT    | Intel® Pather Lake H Processor<br>- Intel® Core Ultra 5 325/ 335/ 336H<br>- Intel® Core Ultra 7 355/ 365/ 356H/ 366H<br>- Intel® Core Ultra 9 386H                                                                                                                                                             |
| MEMORY         | 2 x 262-pin DDR5-7200Mhz SO-DIMM, up to 128GB                                                                                                                                                                                                                                                                  |
| EXPANSION SLOT | 1 x M.2 B key 3042/3052 support PCIe4.0 x1 + USB3.2 w/ SIM slot for 4G/5G module<br>1 x M.2 M Key 2242/ 2280 support PCIe5.0 x4 storage<br>1 x M.2 M Key 2242/ 2280 support PCIe4.0x2 storage<br>1 x M.2 E key 2230 support PCIe4.0 x1 +USB2.0 for WIFI/BT module<br>1 x PCIe 5.0x 8 slot ( for 3x6H CPU only) |
| GRAPHICS       | Intel® Integrated Graphics, support quad display<br>- 2 x HDMI® 2.1 (7860x 4320 @60Hz)<br>- 2 x DP1.4 (4096 x 2160@120Hz)<br>- 1 x LVDS (1920x1200@60Hz)                                                                                                                                                       |
| AUDIO          | Audio Codec: ALC897 + ALC105, support 4 ohm 2W amplifier                                                                                                                                                                                                                                                       |
| LAN            | 1 x i226-LM (support vPro) +1 x i226-V                                                                                                                                                                                                                                                                         |
| SUPER I/O CHIP | IT8786E-I                                                                                                                                                                                                                                                                                                      |
| REAR I/O       | 1 x DC-Jack<br>2 x HDMI® connector<br>2 x DP connector<br>3 x USB3.2 Gen1 Type A connector<br>1 x USB-C(USB3.2 Gen2) connector<br>2 x RJ45 connectors, support 2.5G<br>1 x Line_out                                                                                                                            |

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|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INTERNAL I/O | <p>Expansion slots:</p> <ul style="list-style-type: none"> <li>- 2 x M.2 M key</li> <li>- 1 x M.2 B key w/ SIM Slot</li> <li>- 1 x M.2 E key - 1 x PCIe 5.0x 8 slot ( for 3x6H CPU only)</li> </ul> <p>SATA:</p> <ul style="list-style-type: none"> <li>- 2 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*15 pin LVDS box header</li> <li>- 1 x 1*8 pin LCD backlight control box header (5V/12V)</li> <li>- 1 x 2*3 pin LCD power select header (3.3V/5V/12V, default is 3.3V)</li> </ul> <p>Audio:</p> <ul style="list-style-type: none"> <li>- 1 x 2*5 pin box header for MIC-in, Line-out, Line-in</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>- 2 x 2*5 pin header, support 4 x USB2.0</li> </ul> <p>Power:</p> <ul style="list-style-type: none"> <li>- 1 x 1*4 pin connector , support DC-IN 9~24V</li> </ul> <p>Serial Port:</p> <ul style="list-style-type: none"> <li>- 2 x 2*5 pin RS232/422/485 box header (COM5/COM6)</li> <li>- 4 x 2*5 pin RS232 box header (COM1/COM2/COM3/COM4)</li> <li>- 6 x 1*3 pin COM power select header (RI/5V/12V, default is NC)</li> </ul> <p>Others:</p> <ul style="list-style-type: none"> <li>- 1 x buzzer</li> <li>- 1 x 2*5 8-bit DIO pin header</li> <li>- 1 x 1*4 pin CPU Fan header</li> <li>- 1 x 1*2 pin clear CMOS header</li> <li>- 1 x 1*3 pin DIO power select header (3.3V/5V, default is 5V)</li> <li>- 2 x 22 pin MIPI-CSI2 FPC header - x4 Lane + x2 Lane</li> <li>- 1 x 1*2 pin DIO for volume up / down</li> <li>- 1 x 1*2 pin DIO for LCD brightness up / down</li> <li>- 1 x 2*5 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> |
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| DIMENSION    | Thin Mini-ITX, 170 mm x 170 mm x 1.6mm ( W x L x H )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ENVIRONMENT  | 0°C ~ 60°C Humidity : 5% ~ 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| OS SUPPORT   | Support Windows 11 IoT Enterprise 24H2<br>Support Ubuntu Ubuntu 24.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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