BIOSTAR
BRING SOLUTION INTO REALITY

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

CPU SUPPORT	Intel® Pather Lake H Processor - Intel® Core Ultra 5 325/ 335/ 336H - Intel® Core Ultra 7 355/ 365/ 356H/ 366H - 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 1 x M.2 M Key 2242/ 2280 support PCIe5.0 x4 storage 1 x M.2 M Key 2242/ 2280 support PCIe4.0x2 storage 1 x M.2 E key 2230 support PCIe4.0 x1 +USB2.0 for WIFI/BT module 1 x PCIe 5.0x 4 slot (for 3x6H CPU only)
GRAPHICS	Intel® Integrated Graphics, support quad display - 2 x HDMI® 2.1 (7860x 4320 @60Hz) - 2 x DP1.4 (4096 x 2160@120Hz) - 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 2 x HDMI® connector 2 x DP connector 3 x USB3.2 Gen1 Type A connector 1 x USB-C(USB3.2 Gen2) connector 2 x RJ45 connectors, support 2.5G 1 x Line_out

INTERNAL I/O	Expansion slots: - 1 x M.2 M key - 1 x M.2 B key w/ SIM Slot - 1 x M.2 E key SATA: - 2 x SATA3 7pin connector - 1 x 1*4 pin SATA power box header Display: - 1 x 2*15 pin LVDS box header - 1 x 1*8 pin LCD backlight control box header (5V/12V) - 1 x 2*3 pin LCD power select header (3.3V/5V/12V, default is 3.3V) Audio: - 1 x 2*5 pin box header for MIC-in, Line-out, Line-in - 1 x 1*4 pin box header for 4 ohm 2W amplifier speaker USB: - 2 x 2*5 pin header, support 4 x USB2.0 Power: - 1 x 1*4 pin connector , support DC-IN 9~24V Serial Port: - 2 x 2*5 pin RS232/422/485 box header (COM5/COM6) - 4 x 2*5 pin RS232 box header (COM1/COM2/COM3/COM4) - 6 x 1*3 pin COM power select header (RI/5V/12V, default is NC) Others: - 1 x buzzer - 1 x 2*5 8-bit DIO pin header - 1 x 1*4 pin CPU Fan header - 1 x 1*2 pin clear CMOS header - 1 x 1*3 pin DIO power select header (3.3V/5V, default is 5V) - 2 x 22 pin MIPI-CSI2 FPC header - x4 Lane + x2 Lane - 1 x 1*2 pin DIO for volume up / down - 1 x 1*2 pin DIO for LCD brightness up / down - 1 x 2*5 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
DIMENSION	Thin Mini-ITX, 170 mm x 170 mm x 1.6mm (W x L x H)
ENVIRONMENT	0ºC ~ 60ºC Humidity : 5% ~ 90%
OS SUPPORT	Support Windows 11 IoT Enterprise 24H2 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!