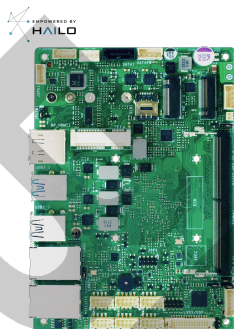


# BIAST-PAT Industrial PC



- Intel® Amston Lake / Alder Lake N / Twin Lake Processor
- Supports triple display : LVDS(eDP)/ HDMI®/ DP++
- Support 1 x DDR5-4800 MHz SO-DIMM, up to 16GB
- Support M.2 Hailo-8™ AI Accelerator, up to 26 TOPS (option)
- 2 x Intel i226 2.5G LAN
- 2 x USB3.2 Gen1, 4 x USB2.0
- 2 x RS232/422/485, 2 x RS232
- 1 x M.2 B key 3042/3052 support USB3.2+PCIe3.0 x1 w/ SIM slot for 4G/5G module
- 1 x M.2 M key M 2242/2280 support PCIe3.0 x1/SATA for NVMe/ SATA storage
- 1 x Mini PCIe 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® Alder Lake-N/ Amston Lake/ Twin Lake Processor Intel Atom x7433RE (wide range temperature support) Intel Processor N97 Intel Processor N150
MEMORY	1 x 262-pin DDR5-4800Mhz SO-DIMM, up to 16GB
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/ 2280 support PCIe3.0 x1/ SATA for NVMe /SATA storage 1 x Mini PCIe support PCIe3.0 x1 +USB2.0 for WIFI/BT module
GRAPHICS	Intel® Integrated Graphics, support triple display - 1 x HDMI® 2.0 connector (4096x2160@60Hz) - 1 x DP++1.4 connector (4096x2160 @60Hz) - 1 x LVDS/eDP (1920x1200 @60Hz, LVDS/eDP switch mode by BIOS)
AUDIO	Audio Codec: ALC897 + ALC105, support 4 ohm 2W amplifier ( not support wide temperature)
LAN	Dual 2.5GbE 2 x Intel i226-V 2 x Intel i226-IT opt for wide range temperature
SUPER I/O CHIP	IT8786E-I

REAR I/O	<p>1 x HDMI® connector  1 x DP connector  2 x USB2.0 Type A connector  2 x USB3.2 Gen1 Type A connector  2 x RJ45 connectors, support 2.5G</p>
INTERNAL I/O	<p>Expansion slots:  - 1 x M.2 M key  - 1 x M.2 B key w/ SIM Slot  - 1 x Mini PCIe  SATA:  - 1 x SATA3 7pin connector  - 1 x 1*4 pin SATA power header  Display:  - 1 x 2*15 pin LVDS/eDP box header (share with the same connector, LVDS/eDP switch mode by BIOS)  - 1 x 1*6 pin LCD backlight control box header  - 1 x 1*3 pin LCD power select header (3.3V/5V, default is 3.3V)  - 1 x 1*3 pin LCD backlight control power select header (5V/12V, default is 12V)  Audio: ( not support wide range temperature)  - 1 x 2*5 pin box 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  - 1 x 1*4 pin box header, support DC-IN 9~24V  Serial Port:  - 2 x 2*5 pin RS232/422/485 box header (COM1/COM2)  - 2 x 2*5 pin RS232 box header (COM3/COM4)  - 2 x 1*3 pin COM1/COM2 power select header (NC/5V/12V, default is NC)  Others:  - 1 x Buzzer ( not support wide range temperature)  - 1 x 2*5 8-bit DIO pin header  - 1 x 1*4 pin CPU Fan header  - 1 x 1*3 pin clear CMOS header  - 1 x 1*3 pin DIO power select header (3.3V/5V, default is 5V)  - 1 x 1*3 pin USB3_1 power select header( 5V/5VS, default is 5VS)  - 1 x 2*5 front panel box header  - 2 x Power LED onboard for APCI power status  - 1 x 1*3 AT/ATX mode switch pin header (default is ATX)</p>
DIMENSION	148 x 102 x 1.6 mm
ENVIRONMENT	0°C ~ 60°C Humidity : 5% ~ 90% Wide range temperature: -40°C ~ 85°C Humidity : 5% ~ 90% (opt)
OS SUPPORT	Support Windows 10 IoT Enterprise 21H2/ 11 IoT Enterprise 24H2 or later version Support Ubuntu 22.04

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

ESG

**BIOSTAR**  
BRING SOLUTION INTO REALITY