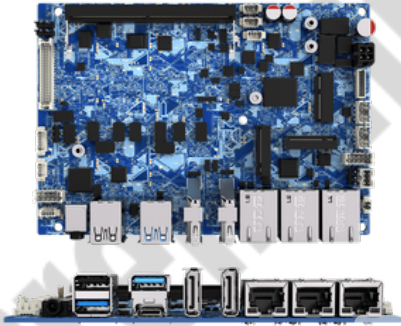




3.5" SBC Industrial Motherboard With Intel® Core™ Ultra Series 3 Processors, Panther Lake



Features

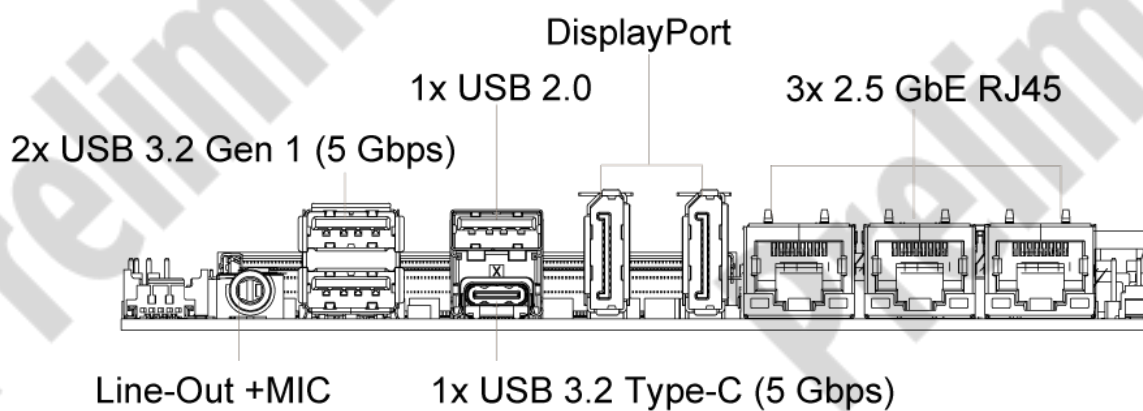
- Supports Intel® Core™ Ultra 5 336HRE / 336H and Ultra 7 366HRE processor options with 25W TDP
- 1x SO-DIMM / DDR5 7200 MT/s up to 48GB
- 3x Intel® i226IT 2.5GbE LAN ports
- 2x DP 1.4, 1x USB-C with DP Alt Mode, LVDS/eDP, and 8x USB ports
- 1x M.2 B-Key (3042/3052) for 4G/5G, 1x M.2 E-Key (2230) for WiFi/Bluetooth support
- 2x SIM Nano Socket
- 1x USB 3.2 Type-C, 2x USB 3.0 Type-A, 1x USB 2.0 Type-A
- 4x COM and 1x 8-bit GPIO
- dTPM 2.0 Supported
- Wide Voltage DC IN 12~24V

Specifications

System	
Processor	• Intel® Core™ Ultra 5 336HRE / 336H, 4P+4E+4LPE, 18M cache, 4Xe, 25W TDP • Intel® Core™ Ultra 7 366HRE, 4P+8E+4LPE, 18M cache, 4Xe, 25W TDP
System Chipset	SoC
LAN Chipset	GbE1: Intel® i226IT 2.5GbE LAN, supports PXE/RPL Boot and Wake-on-LAN GbE2: Intel® i226IT 2.5GbE LAN, supports PXE/RPL Boot and Wake-on-LAN GbE3: Intel® i226IT 2.5GbE LAN, supports PXE/RPL Boot and Wake-on-LAN
Audio Codec	Realtek® ALC897 CODEC
System Memory	• 1x SO-DIMM, DDR5 7200 MT/s, up to 48GB
Watchdog	1~255 sec./min. programmable via Super I/O
TPM	dTPM2.0
Display	
Display Port	2x DP1.4, max resolution 3840*2160@60Hz
eDP	1x eDP 1.4b, max 3840*2160@60Hz
LVDS	1x LVDS, max 1920*1200@60Hz
Multiple Display	Dual Display
Storage	
M.2	1x M.2 M-Key 2280, PCIe x4 Gen4 / SATA3
Expansion	
M.2	1x M.2 E-Key 2230, PCIe+ USB2.0, Support WiFi+ Bluetooth 1x M.2 B-Key 3042/3052, PCIe+USB3.0+ USB2.0, Support 5G/4G
I/O	
Audio	Line-out, Mic-in, Line-in, and L/R amplifier via wafer connectors
Display Port	2x DisplayPort
LAN	3x 2.5GbE RJ45
SIM	2x SIM Nano Socket
USB	1x USB 3.2 Type-C with PD, 2x USB 3.2, 5x USB 2.0
Internal I/O	
COM	• Internal I/O: 4x COM ports via wafer connectors (COM1-COM4)
GPIO	1x 8-bit GPIO via wafer connector
USB	4x USB 2.0 via wafer connectors
Operating System	
Windows	Microsoft® Windows 11
Linux	Ubuntu 24.04 LTS Linux 6.x
Power	
Power Adapter	Optional AC/DC 20V/7.5A, 150W
Power Mode	AT, ATX
Power Supply Voltage	DC IN 12~24V
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection Surge Protection
Environment	
Form Factor	3.5" Embedded SBC
Operating Temperature	0°C to 60°C
Storage Temperature	-40°C to 85°C
Relative Humidity	10% to 95% (non-condensing)
Certification	CE, FCC Class A, ICES-003, UKCA

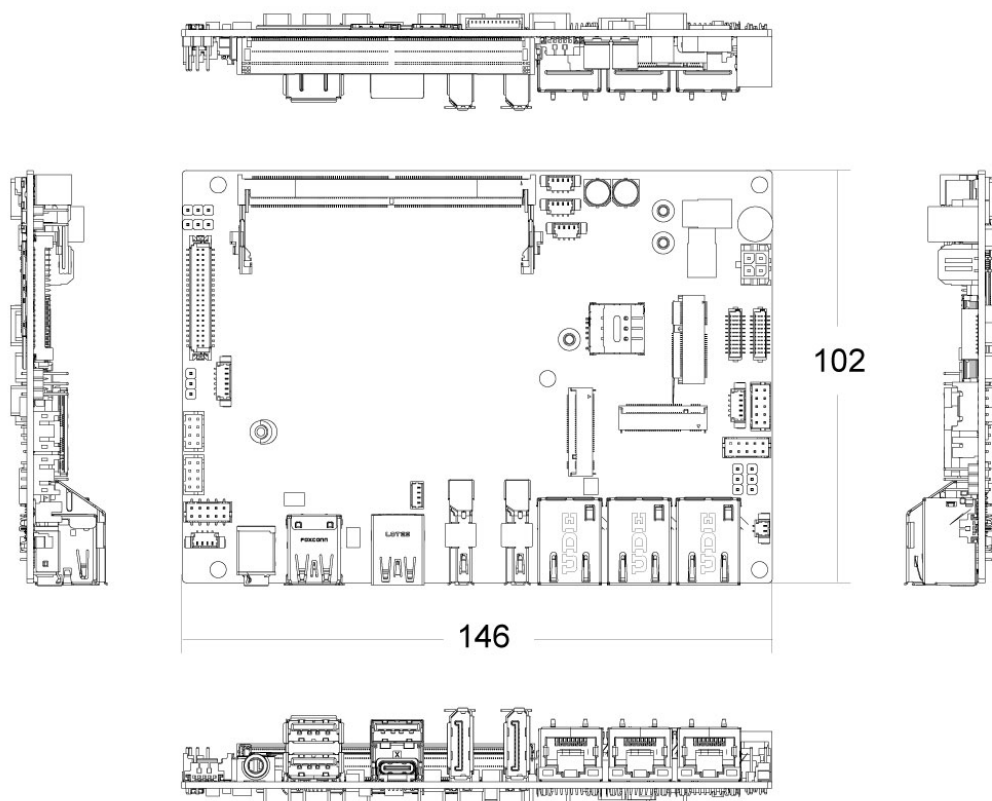
Physical	
Dimensions	146 x 102mm

External I/O Mechanical Layout



Dimension

Unit: mm



Compliances and Standards

Operating Temperature	0°C to 60°C IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat test procedure) IEC60068-2-3:2007 (Damp heat, steady state, test procedure) IEC60068-2-14:2009 (Wide temperature range thermal shock)
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EMC	• FCC Class A (47 CFR part 15.109 and part 15.107) • CE • ICES-003 • UKCA • Industrial EMC Compliance - EN 61000-4-2: 2009 - EN IEC 61000-4-3: 2020 - EN 61000-4-4: 2012 - EN 61000-4-5: 2014 +A1: 2017 - EN 61000-4-6: 2014
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Exports And Tariff Codes

ECCN	5A992.c
HTS	8504.90.2000
ScheduleB	8473.30.0002

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