



Features

- Intel® Core Ultra Series 3 Processor
- Built in Intel® Arc GPU
- 1 x Memory socket (Capacity Max. Up to 48GB DDR5 6400MT/s or 32GB 7200MT/s)
- 2 x CAN bus (with one DB-9)
- 2 x COM Ports (2 x RS232 or 1 x RS232 & 1 x 8bit DIO)
- 2 x Intel® 2.5G Ethernet
- 2 x Storage (M.2 Key-M, Key-B)
- 3 x Expansion Slot (M.2 Key-M, Key-B, Key-E)
- 3 x Display (HDMI 2.1b, DP2.1, USB-C DP)

Specifications

System Information

Processor	Intel® Core™ Ultra Series 3 processors, BGA20X (former Panther Lake) Intel® Core™ Ultra 7 Processor 365, 8C8T, 12M Cache, 1.8 GHz (4.8GHz), TDP: 25W Intel® Core™ Ultra 7 Processor 355, 8C8T, 12M Cache, 1.7 GHz (4.7GHz), TDP: 25W Intel® Core™ Ultra 5 Processor 335, 8C8T, 12M Cache, 1.6 GHz (4.6GHz), TDP: 25W Intel® Core™ Ultra 5 Processor 322, 6C6T, 12M Cache, 1.9 GHz (4.4GHz), TDP: 25W
System Memory	1 x 262-pin DDR5 6400MHz (H404) SO-DIMM socket, 7200MHz (H484) SO-DIMM socket supports up to 48GB Max.
BIOS Information	AMI BIOS, 256Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
H/W Status Monitor	CPU & system temperature monitoring Voltages monitoring
TPM	Onboard NuvoTon NPCT760AABYX supports TPM 2.0

Expansion

M.2	1 x M.2 Key M 2280 (with 1 x PCIe Gen5) NVME 1 x M.2 Key B 3042/3052/2242 (with 1 x PCIe x1, USB 3.2 Gen2, USB 2.0 with 1 x SIM card slot support WWAN+GNSS) (3.3V & 3.8V) 1 x M.2 Key E 2230 support WiFi module and CNVi (1 x PCIe x1 & USB 2.0 Signal)
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Storage

M.2	1 x M.2 (Key M, 2280) 1 x M.2 (Key B, 3042/3052/2242)
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Display

Graphic Chipset	Intel® Graphics
Resolution	1 x DP 2.1: Max: 7680 x 4320@30 Hz 1 x HDMI 2.1b: 7680 x 4320@30Hz 1 x USB Type C support DP: 4096 x 2160@60Hz 3 independent displays

Ethernet

LAN Chipset	2 x Intel® I226IT 2.5 Gigabit Ethernet Controllers
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Software Support

OS	Windows 11, Linux
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Certification

Certification Information	CE, FCC Class A, RoHS, UKCA
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Right I/O

Antenna	1 x Antenna holes
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Left I/O

Antenna	1 x Antenna holes
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Front I/O

USB	2x USB 2.0 type A
Power Button	1 x Power button
Reset Button	1 x Reset button
COM Port	2 x DB-9 RS-232 or 1 x DB-9 RS-232+1 x DB-9 8bit DIO
LED Indicator	1 x Power LED 1 x HDD LED
Audio	1 x Mic-In 1 x Line-Out

Rear I/O

USB	4 x USB 2.0 by pin header 3 x USB 3.2 Gen 2 1 x USB Type-C 5V 3A at I/O (with USB 3.2 Gen 2x1 & DP 1.4a signal display output)
LAN Port	2 x 2.5GHz (RJ-45)
CAN Bus	2x CAN Bus (one DB-9) via integrated M.2 Conversion Module
DP	1 x DP 2.1
HDMI	1 x HDMI 2.1b
Antenna	2 x Antenna holes

Power Requirement

Voltage Input Spec.	DC in +12V ~ +24V (tolerance)
DC Output Connector	lockable DC Jack
ACPI	Single power ATX Support S0, S3, S4, S5, ACPI 5.0 compliant
Power Mode	AT/ATX (AT is Default Setting)
Adapter	120W AC to DC Adapter

Mechanical & Environmental

Operating Temp.	Fanless (CPU TDP 15W): -20 to 60°C (wide-temp SSD)
Storage Temp.	-40 ~ 85°C (-40°F ~ 185°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	177 x 126 x 57mm (6.97" x 4.94" x 2.24")
Vibration Test	Operating: With SSD : 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis Non-operating IEC 60068-2-6 Test Fc: Vibration Sinusoidal Test Sweep Sine, 3Grms @ 10~500Hz, 30min
Shock Test	Operating: With SSD : 10 Grms, IEC 60068-2-27, Half Sine, 11ms
Drop Test	ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces
Mounting Kit	Wall/VESA/DIN rail mount