

Preliminary

Features

- LGA 1851 socket supports Intel® Core™ Ultra Processor, formerly the Meteor Lake PS (RTL-PS) Platform
- The Intel® Core™ Ultra Processors combine AI-ready CPU, GPU and NPU delivering stunning graphics and AI focused performance for an edge AI applications
- Thin Mini ITX, low-profile, single stack I/O
- Fanless operation (15W CPU only)
- Select Intel® Core™ Ultra 7 and Core™ Ultra 5 Processor with integrated Intel® ARC™ GPU
- 2 x SODIMM sockets support 5600MHz DDR5 up to 64GB non-ECC
- 1 x Gen4 PCIe x4, 3 x M.2 (E/M/B-Key)
- Dual 2.5 GbE Ethernet LAN ports
- Supports 4 Independent Displays (3 x DP + LVDS/eDP)
- 2 x USB Type C Thunderbolt 4
- 2 x USB 3.2 Gen 2, 2 x USB 3.2 Gen 1, 4 x USB 2.0
- 4 x COM Ports
- 12 - 24V wide range DC-in



Specifications

System	
CPU	LGA 1851 Socket supports Intel® Core Ultra 3/5/7 Processors, formerly Meteor Lake PS Platform, up to 65W TDP
System Memory	2 x SODIMM sockets support 5600MHz DDR5 up to 64GB non-ECC
BIOS	256Mb SPI BIOS
Audio Codec	Realtek HD Audio Codec
Expansion	1 x Gen4 PCIe x4 (x16 Physical Slot) 1 x M.2 E-Key 2230 CNVi (PCIe x1 Channel & USB Signal) 1 x M.2 M-Key 2280/2242 supports NVMe (Gen4 PCIe x4) 1 x M.2 B-Key 3042 with Nano SIM Socket (with PCIe x2, SATA III, & USB 3.2 Signal)
TPM	TPM 2.0
OS Support	Win 10 Win 11 Linux Ubuntu
Display	
Chipset	Integrated Intel® ARC™ GPU (CPU Dependent - 45W TDP) Integrated Intel® Graphics (CPU Dependent - 15W TDP)
Display Output	3 x DisplayPort 1.4a @ 60Hz 18/24-bits Dual Channel LVDS, optional eDP
Multi-Display	Supports 4 Independent Displays
Ethernet	
Controller	2 x Intel® Ethernet Controller I226-LM
Ethernet	2 x 10/100/1000/2.5G Base-Tx GbE Compatible
Connector	2 x RJ45 LAN
External I/O	
Display	3 x DisplayPorts (DP++)
USB	2 x USB 3.2 Gen 2 Type A 2 x USB 2.0 Type A 2 x USB Type C Thunderbolt 4
LAN	2 x RJ45
Audio	Line-out
DC-in	1 x Barrel Type DC-in Connector

Internal I/O	
LVDS	1 x LVDS Header 1 x eDP Header (Optional)
USB	1 x USB 3.2 Gen 1 Header (2 Ports) 1 x USB 2.0 Header (2 Ports)
COM	2 x RS-232/422/485 Headers 2 x RS-232 Headers
SATA	1 x SATA III
Other	1 x 8-bits GPIO Header 1 x I ² C, 4-pin DC-in Connector
Mechanical & Environment	
Power Requirement	12V-24V Wide Range DC-In
Operating Temp.	0°C ~ 60°C (32°F ~ 140°F)
Storage Temp.	-20°C ~ 80°C (-4°F ~ 176°F)
Operating Humidity	5% ~ 90% Relative Humidity, Non-condensing
Cooling Design	Optional Passive Heatsink (15W CPU only)
Certification	FCC Class B/CE/UL Second Edition RoHS Compliant
Form Factor	Mini ITX
Dimensions	6.7"x 6.7" (170mm x 170mm)
Certification	FCC Class B/CE RoHS Compliant
Weight	0.88 lbs (0.4 KG)

* All product specifications and images are subject to change without notice. Last update: 04/29/2024