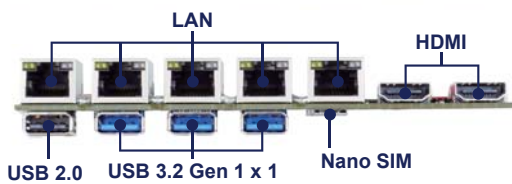


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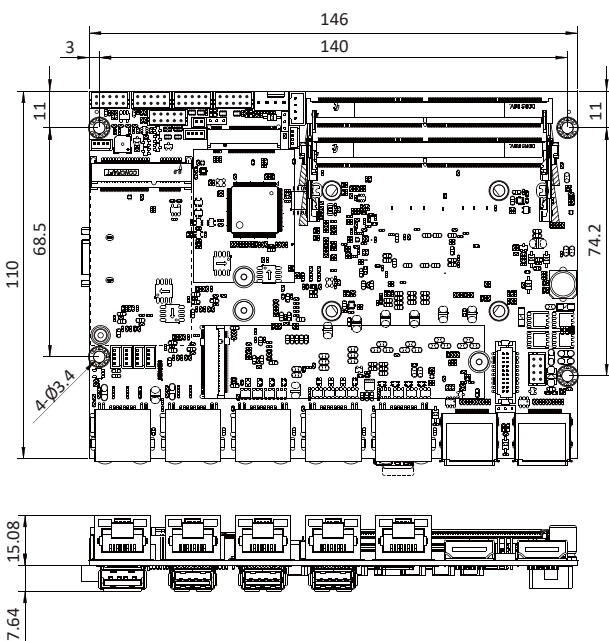
3.5" Plus Embedded SBC supports
 Intel® 13th Gen Raptor Lake-P/ Raptor Lake-U i7 / i5 / i3 CPU,
 Intel® 12th Gen Alder Lake-P / Alder Lake-U i7 / i5 / i3 CPU,
 2 x HDMI, 1 x eDP, 5 x Intel 2.5Gb Ethernet, 2 x M.2, 1 x Mini PCIe
 4DI / 4DO, 3 x USB 3.2, 5 x USB 2.0, 2 x COM, 1 x Nano SIM



Features:

- Intel® 13th Gen Raptor Lake-P/ Raptor Lake-U
Intel® 12th Gen Alder Lake-P / Alder Lake-U
i7 / i5 / i3 CPU
- 2 x DDR5 SODIMM (Max. 64GB)
- Multiple Independent display: 2 x HDMI, eDP
- 5 x Intel 2.5 GbE LAN, 3 x USB 3.2, 5 x USB 2.0
- 1 x Mini PCIe, 1 x M.2 M Key, 1 x M.2 B Key, 1 x Nano SIM
- 2 x COM, 4DI / 4DO
- TPM 2.0, SMBus, I²C

Dimensions: (Unit:mm)



Specifications :

- CPU
Intel® 13th Gen Raptor Lake-P/ Raptor Lake-U i7 / i5 / i3, Pentium CPU
Intel® 12th Gen Alder Lake-P / Alder Lake-U i7 / i5 / i3, Celeron CPU
- MB Chipset
Intel® Alder Lake-P / Alder Lake-U SoC
Intel® Gen Raptor Lake-P/ Raptor Lake-U SoC
- Graphics
Intel Iris Xe Graphics (i7, i5), Intel UHD Graphics (i3, Celeron)
- System Memory
2 x DDR5 4800 MHz SODIMM, Max 64GB
- Storage
1 x SATA ports 3.0 Data transfer rates up to 6.0 Gb/s (600 MB/s)
1 x M.2 M key Type 2280 (PCIe x4), Support NVMe
1 x M.2 B key Type 3042 (SATA)
- BIOS
AMI UEFI BIOS
- Display
2 x HDMI (OEM to DP), 1 x eDP
- TPM
TPM 2.0
- LAN
5 x Intel 2.5GbE I226-IT (external)
- Audio
High Definition Audio Specification, Support Line-out / Mic-in / Line-in
Two channel Class D Audio Amplifier
- Expansion Interface
1 x Full Size Mini PCIe (PCIe / USB 2.0),
1 x M.2 M key Type 2280 (PCIe x 4), Support NVMe,
1 x M.2 B key Type 3042 / 3052 (mSATA / USB 3.2 Gen 1 x 1 / USB 2.0)
1 x Nano SIM

Expansion Options

CN064	M.2 B key 2242 to M.2 E Key 2230, WiFi 6 + BT
CN067	M.2 B key 2242 to M.2 B Key 2252, 4G / 5G (3.7V by BOM Control)
CN059	USB to Line-out / Mic-in
CC007	USB to 4 port COM
CIO116G	SMBus to 8DI + 8DO
PW351	1 port PoE PSE
PW352	2 port PoE PSE
PW301	802.3AF / AT PD module
PW205	Wide Range power board (9~36V) with power Ignition on/off delay
PW206	12V / 24V DC to DC Redundant Power Board
PW022	Wide Range power board (24V / 48V)
DP001	eDP to VGA
eDP003	eDP to DVI
eDP004	eDP to HDMI
eDP001	eDP to LVDS (OEM)

- USB
3 x USB 3.2 Gen 1 x 1 (external)
1 x USB 2.0 (external) ; 4 x USB 2.0 (internal)
- Serial IO
2 x RS232 / 422 / 485 (internal)
*COM1, COM2 pin9 5V / 12V (option)
- SMBus / I²C
1 x SMBus ; I²C
- WDT
Hardware Watch Dog Timer, 0~255 sec programmable
- Power Input
Wide Range DC IN +9~36V
- Dimension
3.5" Plus (146 x 110 mm)
- Operation Temperature
-40°C~70°C
(under specific environmental & CPU power consumption conditions.)
- Operation Humidity
5~95%, non-condensing
- Chassis (OEM I/O Expansion by request)
Box PC: SKY 3, HAWK, TASK(OEM)
- OS Support
Windows® 10 IOT ; Windows® 11 IOT
Ubuntu 22.04 above, Fedora 36 above