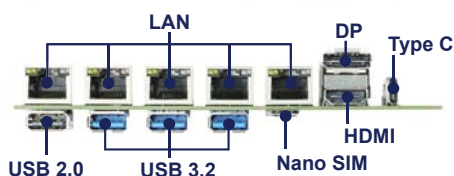


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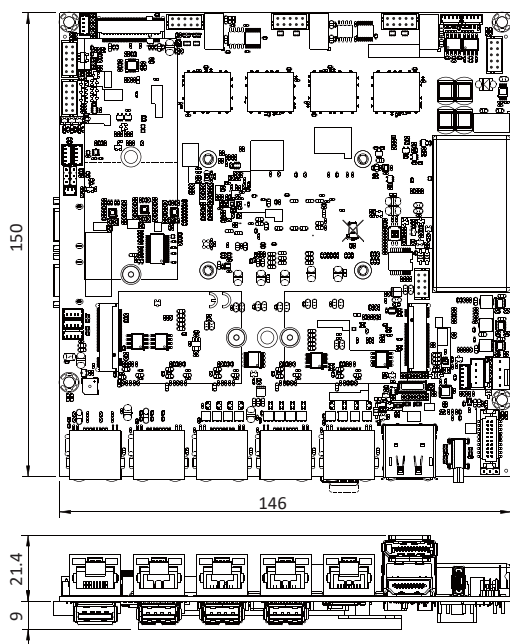
3.5" Plus Embedded SBC supports
Intel® 13th Gen Raptor Lake-U i7 / i5 / i3, Pentium CPU,
1 x HDMI, 1 x DP, 1 x eDP, 1 x Type C, 5 x Intel 2.5Gb Ethernet,
3 x M.2, 1 x Nano SIM, 4DI / 4DO, 3 x USB 3.2, 4 x USB 2.0,
2 x COM, 2 x CABus, Wide Range DC-IN, CPC-Ignition on/off control



Features:

- Intel® 13th Gen Raptor Lake-U i7 / i5 / i3, Pentium CPU
- Onboard LPDDR5, 16GB / 32GB
- Multiple Independent display:
 - 1 x HDMI, 1 x DP, eDP, 1 x Type C DP ALT Mode
- 5 x Intel 2.5 GbE LAN, 3 x USB 3.2 ,
 - 4 x USB 2.0, 1 x Type C
- 1 x M.2 M Key, 2 x M.2 B Key, 1 x Nano SIM
- 2 x COM, 4DI / 4DO, TPM 2.0, SMBus, I²C
- Wide Range DC-IN, CPC-Ignition on/off control

Dimensions: (Unit:mm)



Specifications :

- CPU
 - Intel® 13th Gen Raptor Lake-U i7 / i5 / i3, Pentium CPU
 - Intel® 12th Gen Alder Lake-U i7 / i5 / i3, Celeron CPU
- MB Chipset
 - Intel® Raptor Lake-U SoC
 - Intel® Alder Lake-U SoC
- Graphics
 - Intel Iris Xe Graphics (i7, i5), Intel UHD Graphics (i3, Celeron)
- System Memory
 - Onboard LPDDR5, 16GB / 32GB
- Storage
 - 1 x Onboard (128 / 256 / 512 GB) NVMe
 - 2 x SATA ports 3.0 Data transfer rates up to 6.0 Gb/s (600 MB/s)
 - 1 x M.2 M key Type 3042 / 3080 (PCIe x4), Support NVMe
- BIOS
 - AMI UEFI BIOS
- Display
 - 1 x HDMI, 1 x DP, eDP, 1 x Type C DP ALT Mode
- 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 M.2 B key Type 3042 (PCIe x1 / USB 2.0)
 - 1 x M.2 M key Type 3042 / 3080 (PCIe x4), Support NVMe
 - 1 x M.2 B key Type 3042 / 3052 (USB 3.2 Gen 1 x 1 / USB 2.0)
 - 1 x Nano SIM

Expansion Module

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
PW353	4 port PoE out (RJ45)
PW354	4 port PoE out (M12)
PW301	802.3AF / AT PD module
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 Type C, USB 3.2 (external)
 - 1 x USB 2.0 (external) ; 3 x USB 2.0 (internal)
- Serial IO
 - 2 x ISO RS232 / 422 / 485 (internal) ;
 - 2 x ISO CANBus
- GPIO
 - Hardware digital Input & Output, 4 x DI / 4 x DO
- SMBus
 - 1 x SMBus ; I²C
- WDT
 - Hardware Watch Dog Timer, 0~255 sec programmable
- Power Input
 - Wide Range DC IN +9~36V ;
 - CPC-Ignition on/off control
 - Wide Range DC IN +18~75V (option),
 - 1.6KVDC I/O isolation
 - SIP Wide Range DC IN +20~53V (option)
- Dimension
 - 3.5" Plus (146 x 150 mm)
- Operation Temperature (100 % CPU Usage)
 - 40°C~+70°C
 - (under specific environmental & CPU power consumption conditions)
- Operation Humidity
 - 5~95%, non-condensing
- Chassis (OEM I/O Expansion by request)
 - HAWK
- OS Support
 - Windows 10/11 (64bit)
 - Linux Ubuntu 22.04/Kernel 5.15

Specification are subject to change without prior notice. ODM / OEM is available.