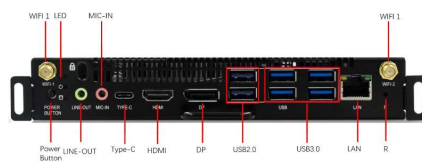


Front I/O



Rear I/O



## Highlights

- Based on Intel Alder Lake platform design
- Provide dual channel SoDIMM DDR4 slot
- Provide 1 x M.2 Key M 2280 size for NVMe/SATA SSD
- Provide 1 x M.2 Key M 2280 size for NVMe SSD
- Front I/O: Provide 1 x HDMI1.4 4K30Hz, 1 x DP1.4 4K60Hz
- Front I/O: Provide 2 x USB2.0, 4 x USB3.0, 1 x Type- C
- Support WIFI6, Mini PCIe or CNVi Interface
- Support 1000M Ethernet RJ45 port
- OPS Interface: Provide 1 x HDMI2.0 4K60Hz
- OPS Interface: Provide 3 x USB2.0, 1 x USB3.0.
- Support Physical TPM security encryption module
- Support WIN11 OS.

## Specification

|                  |                    |                                                                                                                                                  |
|------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor System | CPU                | Intel® Alder Lake-P Processor, Max. TDP 28W                                                                                                      |
|                  | Chipset            | Intel SOC design                                                                                                                                 |
|                  | BIOS               | AMI UEFI BIOS                                                                                                                                    |
| Graphics         | Graphics card      | Intel® UHD Graphics                                                                                                                              |
|                  | Multi displays     | 3 simultaneous 3 displays                                                                                                                        |
|                  | Interface          | 1 x DP1.4(4K60Hz), 1 x HDMI1.4(4K30Hz), 1 x 80PIN (1 x HDMI2.0 4K60Hz output)                                                                    |
| Memory           | Type               | Dual channel SO-DIMM DDR4-3200MHz                                                                                                                |
|                  | Max                | 32GB                                                                                                                                             |
| Ethernet         | Lan IC             | 1 x Realtek 8111H                                                                                                                                |
|                  | Interface          | 10/100/1000Mbps                                                                                                                                  |
|                  | Connector          | 1 x RJ45                                                                                                                                         |
| Wireless         | Type               | Wi-Fi/BT module                                                                                                                                  |
|                  | Interface          | 1 x M.2 2230 slot for WIFI_BT module                                                                                                             |
| Storage          | Type               | NVMe/SATA                                                                                                                                        |
|                  | Interface          | 2x M.2 2280 size for NVMe/SATA SSD                                                                                                               |
| IO Interface     | Front panel        | 1 x DP1.4, 1 x HDMI1.4<br>2 x USB 2.0, 4 x USB 3.0, 1 x Type-C(USB3.0) 1 x RJ45<br>1 x Line out & 1 x<br>2 x Wi-Fi/BT ANT<br>1 x HDMI IN(option) |
|                  | OPS Interface      | 1 x 2.5/5.5 DC IN JACK<br>1 x HDMI2.0 4K60Hz output<br>3 x USB2.0, 1 x USB3.0<br>1 x TTL                                                         |
| Software         | OS Supports        | Windows10/Windows11/Linux                                                                                                                        |
|                  | Watchdog           | Support                                                                                                                                          |
|                  | vPro/AMT           | Support                                                                                                                                          |
|                  | TPM                | Support                                                                                                                                          |
| Power            | Power input        | 12~19V DC IN, 2.5/5.5 DC Jack & JAE 80Pin DC IN                                                                                                  |
| Size             | Dimension          | Comply with OPS standard module, 195(L) x 180(W) x 30(H) mm                                                                                      |
| Environment      | Operating Temp.    | -5~45°C                                                                                                                                          |
|                  | Operating Humidity | 10%~90% non-condensing                                                                                                                           |
|                  | Storage Temp.      | -20~70°C                                                                                                                                         |
|                  | Operating Humidity | 5%~95% non-condensing                                                                                                                            |



ADI5104 OPS module is based on Intel 12th Gen Alder lake-P platform design, which deliver Intel Hybrid Technology Architecture E+P cores performance for the education or conference solution. ADI5104 complying with Intel Open Pluggable specification, can be easily installed, upgraded and maintained. Besides, the OPS also has Intel vPro technology and TPM2.0 features to deliver remote manageability and data security.



- Based on Intel Alder Lake-P platform design
- Provide dual channel SoDIMM DDR4 slot
- Provide 1 x M.2 Key M 2280 size for NVMe
- Front I/O: Provide 1 x HDMI1.4 4K30Hz, 1 x DP1.4 8K30Hz
- Front I/O: Provide 2 x USB2.0, 2 x USB3.1, 1 x Type-C
- Support WIFI6, Mini PCIe or CNVi Interface
- Support 1000M Ethernet RJ45 port
- OPS Interface: Provide 1 x HDMI2.0 4K60Hz, 1 x DP1.4
- OPS Interface: Provide 2 x USB2.0, 1 x USB3.0, 1 x TTL .
- Support Physical TPM security encryption module
- Support WIN11 OS.

## Specifications

|                  |                    |                                                                                                                                                      |
|------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor System | CPU                | Intel® Alder Lake-P Processor, Max. TDP 28W                                                                                                          |
|                  | Chipset            | Intel SOC design                                                                                                                                     |
|                  | BIOS               | AMI UEFI BIOS                                                                                                                                        |
| Graphics         | Graphics card      | Intel® UHD Graphics                                                                                                                                  |
|                  | Multi displays     | 3 simultaneous 3 displays                                                                                                                            |
|                  | Interface          | 1 x DP1.4(8K30Hz), 1 x HDMI1.4(4K30Hz),<br>1 x 80PIN (1 x HDMI2.0 4K60Hz output, 1 x DP1.4 )                                                         |
| Memory           | Type               | Dual channel SO-DIMM DDR4-3200MHz                                                                                                                    |
|                  | Max                | 32GB                                                                                                                                                 |
| Ethernet         | Lan IC             | 1 x Realtek 8111H Co-Lay Intel Ethernet Connection I226LM                                                                                            |
|                  | Interface          | 10/100/1000Mbps                                                                                                                                      |
|                  | Connector          | 1 x RJ45                                                                                                                                             |
| Wireless         | Type               | Wi-Fi/BT module                                                                                                                                      |
|                  | Interface          | 1 x M.2 2230 slot for WIFI_BT module                                                                                                                 |
| Storage          | Type               | NVMe/SATA                                                                                                                                            |
|                  | Interface          | 1 x M.2 2280 size for NVMe/SATA SSD                                                                                                                  |
| IO Interface     | Front panel        | 1 x DP1.4, 1 x HDMI1.4<br>2 x USB 2.0, 2 x USB 3.1, 1 x Type-C(USB3.1)<br>1 x RJ45<br>1 x Line out & MIC-In two in one connector<br>2 x Wi-Fi/BT ANT |
|                  | OPS Interface      | 1 x 2.5/5.5 DC IN JACK<br>1 x HDMI2.0 4K60Hz output<br>1 x DP1.4 output<br>2 x USB2.0, 1 x USB3.0<br>1 x TTL                                         |
| Software         | OS Supports        | Windows10/Windows11/Linux                                                                                                                            |
|                  | Watchdog           | Support                                                                                                                                              |
|                  | vPro/AMT           | Support                                                                                                                                              |
|                  | TPM                | Support                                                                                                                                              |
| Power            | Power input        | 12~19V DC IN, 2.5/5.5 DC Jack & JAE 80Pin DC IN                                                                                                      |
| Size             | Dimension          | Comply with OPS standard module, 119(L) x 180(W) x 30(H) mm                                                                                          |
| Environment      | Operating Temp.    | -5~45°C                                                                                                                                              |
|                  | Operating Humidity | 10%~90% non-condensing                                                                                                                               |
|                  | Storage Temp.      | -20~70°C                                                                                                                                             |
|                  | Operating Humidity | 5%~95% non-condensing                                                                                                                                |

ADI5103 OPS module is based on Intel 11th Gen Tiger lake-P platform design, which deliver Intel Hybrid Technology Architecture E+P cores performance for the education or conference solution. ADI5103 complying with Intel Open Pluggable specification, can be easily installed, upgraded and maintained. Besides, the OPS also has Intel vPro technology and TPM2.0 features to deliver remote manageability and data security.



- Based on Intel Tiger Lake-P platform design
- Provide dual channel SoDIMM DDR4 slot
- Provide 1 x M.2 Key M 2280 size for NVMe
- Front I/O: Provide 1 x HDMI1.4 4K30Hz, 1 x DP1.4 8K30Hz
- Front I/O: Provide 2 x USB2.0, 2 x USB3.1, 1 x Type-C
- Support WIFI6, Mini PCIe or CNVi Interface
- Support 1000M Ethernet RJ45 port
- OPS Interface: Provide 1 x HDMI2.0 4K60Hz, 1 x DP1.4
- OPS Interface: Provide 2 x USB2.0, 1 x USB3.0, 1 x TTL .
- Support Physical TPM security encryption module
- Support WIN11 OS.

## Specifications

|                  |                    |                                                                                                                                                      |
|------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor System | CPU                | Intel® Tiger Lake-P Processor, Max. TDP 45W                                                                                                          |
|                  | Chipset            | Intel SOC design                                                                                                                                     |
|                  | BIOS               | AMI UEFI BIOS                                                                                                                                        |
| Graphics         | Graphics card      | Intel® UHD Graphics                                                                                                                                  |
|                  | Multi displays     | 3 simultaneous 3 displays                                                                                                                            |
|                  | Interface          | 1 x DP1.4(8K30Hz), 1 x HDMI1.4(4K30Hz),<br>1 x 80PIN (1 x HDMI2.0 4K60Hz output, 1 x DP1.4 )                                                         |
| Memory           | Type               | Dual channel SO-DIMM DDR4-3200MHz                                                                                                                    |
|                  | Max                | 32GB                                                                                                                                                 |
| Ethernet         | Lan IC             | 1 x Realtek 8111H Co-Lay Intel Ethernet Connection I226LM                                                                                            |
|                  | Interface          | 10/100/1000Mbps                                                                                                                                      |
|                  | Connector          | 1 x RJ45                                                                                                                                             |
| Wireless         | Type               | Wi-Fi/BT module                                                                                                                                      |
|                  | Interface          | 1 x M.2 2230 slot for WIFI_BT module                                                                                                                 |
| Storage          | Type               | NVMe/SATA                                                                                                                                            |
|                  | Interface          | 1 x M.2 2280 size for NVMe/SATA SSD                                                                                                                  |
| IO Interface     | Front panel        | 1 x DP1.4, 1 x HDMI1.4<br>2 x USB 2.0, 2 x USB 3.1, 1 x Type-C(USB3.1)<br>1 x RJ45<br>1 x Line out & MIC-In two in one connector<br>2 x Wi-Fi/BT ANT |
|                  | OPS Interface      | 1 x 2.5/5.5 DC IN JACK<br>1 x HDMI2.0 4K60Hz output<br>1 x DP1.4 output<br>2 x USB2.0, 1 x USB3.0<br>1 x TTL                                         |
| Software         | OS Supports        | Windows10/Windows11/Linux                                                                                                                            |
|                  | Watchdog           | Support                                                                                                                                              |
|                  | vPro/AMT           | Support                                                                                                                                              |
|                  | TPM                | Support                                                                                                                                              |
| Power            | Power input        | 12~19V DC IN, 2.5/5.5 DC Jack & JAE 80Pin DC IN                                                                                                      |
| Size             | Dimension          | Comply with OPS standard module, 119(L) x 180(W) x 30(H) mm                                                                                          |
| Environment      | Operating Temp.    | -5~45°C                                                                                                                                              |
|                  | Operating Humidity | 10%~90% non-condensing                                                                                                                               |
|                  | Storage Temp.      | -20~70°C                                                                                                                                             |
|                  | Operating Humidity | 5%~95% non-condensing                                                                                                                                |

## Product view



## Dimensions

