

S104

Intel ALDER LAKE Platform OPS Module

S104 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. S104 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.

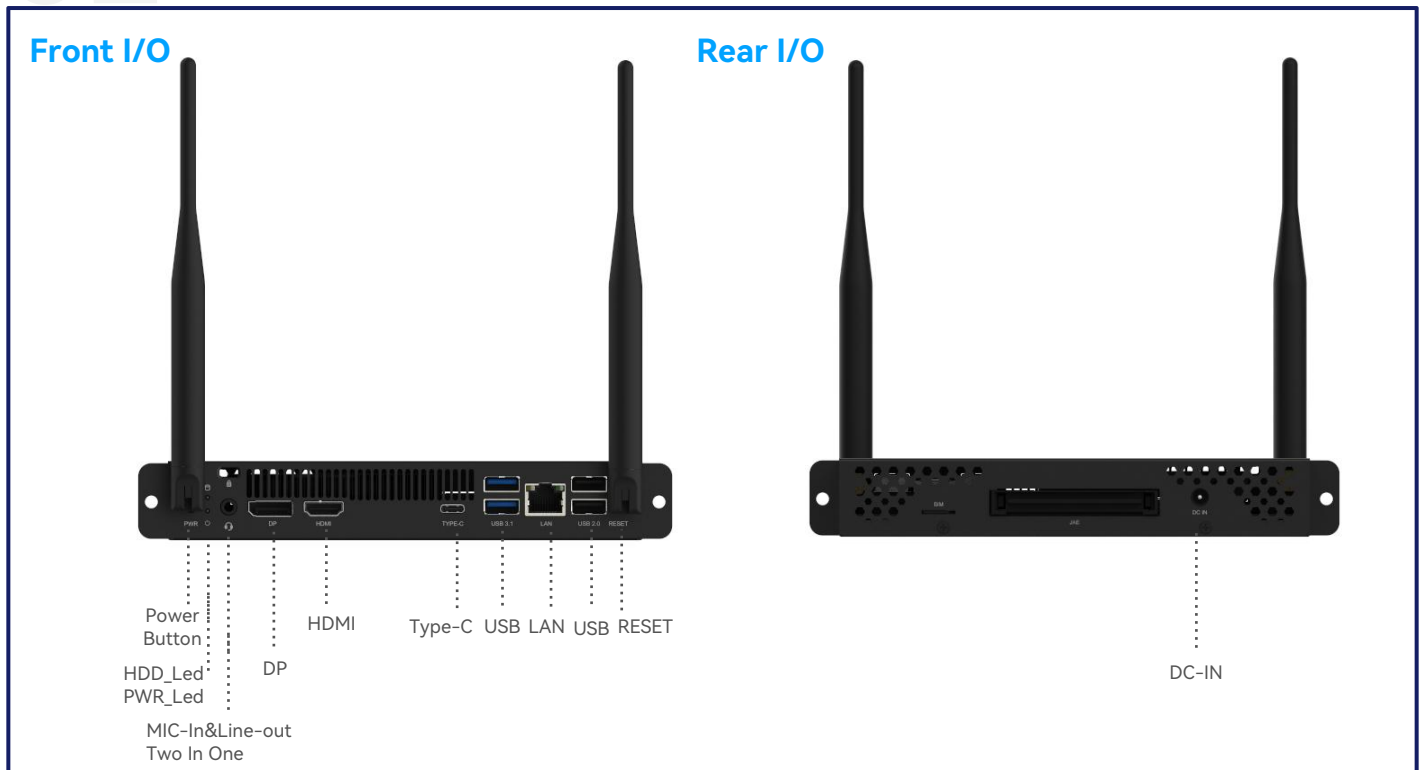


- Based on Intel Alder Lake-P platform design
- Provide dual channel SoDIMM DDR5 slot
- Provide 1 x M.2 Key M 2280 size for NVMe/SATA SSD
- Front I/O: Provide 1 x HDMI1.4 4K30Hz, 1 x DP1.4 8K30Hz
- Front I/O: Provide 2 x USB2.0, 2 x USB3.1, 1 x Type-C
- Support WIFI6, Mini PCIe or CNVi Interface
- Support 1000M Ethernet RJ45 port
- OPS Interface: Provide 1 x HDMI2.0 4K60Hz
- OPS Interface: Provide 2 x USB2.0, 1 x USB3.0, 1 x TTL .
- Support Physical TPM security encryption module
- Support Window11

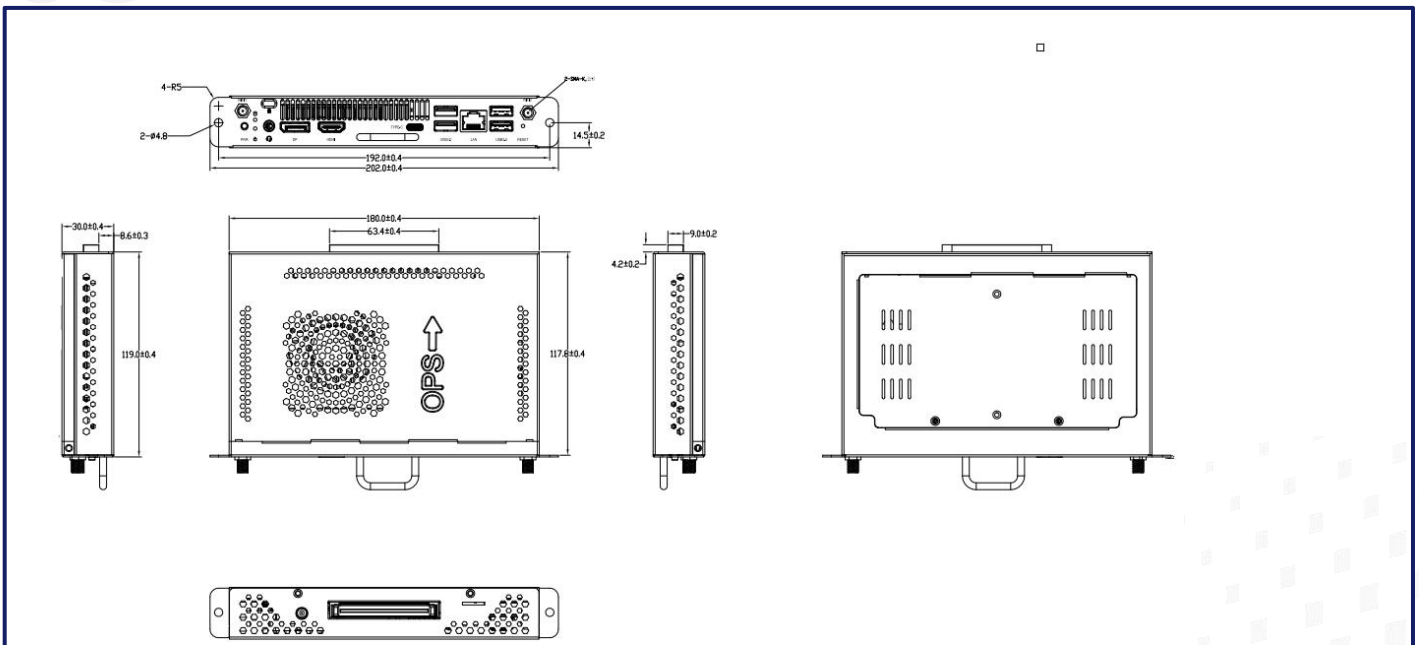
Specifications

Processor System	CPU	Intel® Alder Lake-P Processor, Max. TDP 28W
	Chipset	Intel SOC design
	BIOS	AMI UEFI BIOS
Graphics	Graphics card	Intel® Iris® Xe Graphics
	Multi displays	4 simultaneous 4 displays
	Interface	1 x DP1.4(8K30Hz), 1 x HDMI1.4(4K30Hz), 1 x Type-C(4K60Hz) 1 x 80PIN (HDMI2.0 4K60Hz output)
Memory	Type	Dual channel SO-DIMM DDR5-4800MHz
	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 2 x USB 2.0, 2 x USB 3.1, 1 x Type-C(USB3.1) 1 x RJ45 1 x Line out & MIC-In two in one connector 2 x Wi-Fi/BT ANT
	OPS Interface	1 x 2.5/5.5 DC IN JACK 1 x HDMI2.0 4K60Hz output 2 x USB2.0, 1 x USB3.0 1 x TTL
Software	OS Supports	Windows10/Windows11/Linux
	Watchdog	Support
	vPro/AMT	Support
	TPM	Support
Power Size	Power input	12~19V DC IN, 2.5/5.5 DC Jack & JAE 80Pin DC IN
	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



Ordering Information

Model	Description
S104-I3	S104 I3-1215U/2x SoDIMM DDR5/1x RTL8111H/ WiFi6/1x ALC897/1x M.2 2280 SATA/NVMe SSD/2 x HDMI/1 x DP/TPM2.0/No vPro
S104-I5	S104 I5-1235U/2x SoDIMM DDR5/1x RTL8111H/ WiFi6/1x ALC897/1x M.2 2280 SATA/NVMe SSD/2 x HDMI/1 x DP/TPM2.0/No vPro
S104-I5 vPro	S104 I5-1235U/2x SoDIMM DDR5/1x Intel I226LM/ WiFi6/1x ALC897/1x M.2 2280 SATA/NVMe SSD/2 x HDMI/1 x DP/TPM2.0/vPro
S104-I7	S104 I7-1255U/2x SoDIMM DDR5/1x RTL8111H /WiFi6/1x ALC897/1x M.2 2280 SATA/NVMe SSD/2 x HDMI/1 x DP/TPM2.0/No vPro
S104-I7 vPro	S104 I7-1255U/2x SoDIMM DDR5/1x Intel I226LM/ WiFi6/1x ALC897/1x M.2 2280 SATA/NVMe SSD/2 x HDMI/1 x DP/TPM2.0/vPro