

WAFER-ADL-P

3.5 SBC supports Intel® Alder Lake-P Core™ i7/i5/i3 and Celeron® processor with 8GB LPDDR4x memory on board default, with DP ,HDMI ,dual 2.5 GbE, USB 3.2 gen 2, M.2, SATA 6Gb/s, COM, PCIe x4 for riser card and RoHS



Features

- » Support 12th Intel® mobile AlderLake-P on board SoC
- » Support on-board LPDDR4x 3200 MHz 8GB memory, up to 16GB
- » Support quadruple independent display via two HDMI and two DP
- » Support PCIe X4, M.2 M key, M.2 B key and M.2 A key expansion
- » Support two 2.5GbE LAN with i225-V

Specifications

Form Factor	
Form Factor	3.5" SBC
System	
CPU	12th Gen. Intel® mobile Alder Lake-P on board SoC
Memory	On-board LPDDR4x 3200 MHz 8GB up to 16GB
Memory Max.	16GB
Physical Characteristics	
Dimensions (LxWxH) (mm)	146mm x 102mm
Net Weight	350g
Storage	
Storage	1 x M.2(NGFF) : M.2 M Key 2242/2280 (PCIe Gen3 x4) 1 x SATA : 6Gb/s
I/O Interface	
Display Output	2 x Display Port : up to 4096 x 2160 @60Hz 2 x HDMI : up to 4096x2160 @ 30Hz
Ethernet	2 x LAN - LAN1: Intel® I225V 2.5GbE controller LAN2: Intel® I225V 2.5GbE controller
Audio	1 x HD Audio : 1 x IAUDIO, support IEI AC-KIT-888S Audio Module (2x5 pin)
I/O Interface	4 x External USB 3.2 Gen2x1 : 10Gb/s(Type A) 4 x Internal RS-232 : 2x5 pin, P=2.0 2 x Internal RS-232/422/485 : 2x5 pin, P=2.0 4 x Internal USB 2.0 : 2x4 pin, P=2.0
Expansion	3 x M.2(NGFF) - 1 x M.2 A Key 2230 for WIFI & BT (PCIe Gen3 x 1 & USB 2.0) 1 x M.2 M Key 2242/2280 (PCIe Gen3 x4)

	1 x M.2 B Key 3042 (PCIe x2 & USB 2.0)
	1 x On-board SIM card socket (hinge type) for M.2 B key
	1 x PCIe x4 : PCIe Gen3 x4 (x4 & x2+x2)
Power	
Power Consumption	12V@2.83A (12 th Gen Intel® Core™ i7-1265UE CPU with 8 GB 3200 MHz LPDDR4x memory, max. loading, EuP mode enabled)
Power Supply	ATX/AT power supply
	Support AT/ATX mode
	ErP/EuP Compliant
Environment	
Operating Temperature	0°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~95%, non-condensing

Ordering Information

WAFER-ADL-P-i7C-R10	3.5 SBC supports Intel® Alder Lake-P Core™ i7-1255U Processor , with 8GB LPDDR4x memory on board default, with DP ,HDMI ,dual 2.5 GbE , USB 3.2 gen 2 , M.2, SATA 6Gb/s, COM,PCIe x4 for riser card and RoHS
WAFER-ADL-P-i5C-R10	3.5 SBC supports Intel® Alder Lake-P Core™ i5-1235U Processor , with 8GB LPDDR4x memory on board default, with DP ,HDMI ,dual 2.5 GbE , USB 3.2 gen 2 , M.2, SATA 6Gb/s, COM,PCIe x4 for riser card and RoHS
WAFER-ADL-P-i3C-R10	3.5 SBC supports Intel® Alder Lake-P Core™ i3-1215U Processor , with 8GB LPDDR4x memory on board default, with DP ,HDMI ,dual 2.5 GbE , USB 3.2 gen 2 , M.2, SATA 6Gb/s, COM,PCIe x4 for riser card and RoHS
WAFER-ADL-P-CC-R10	3.5 SBC supports Intel® Alder Lake-P Celeron® 7305 SoC Processor , with 8GB LPDDR4x memory on board default, with DP ,HDMI ,dual 2.5 GbE , USB 3.2 gen 2 , M.2, SATA 6Gb/s, COM,PCIe x4 for riser card and RoHS

Packing List

1 x WAFER-ADL-P single board computer	1 x SATA cable
1 x QIG	