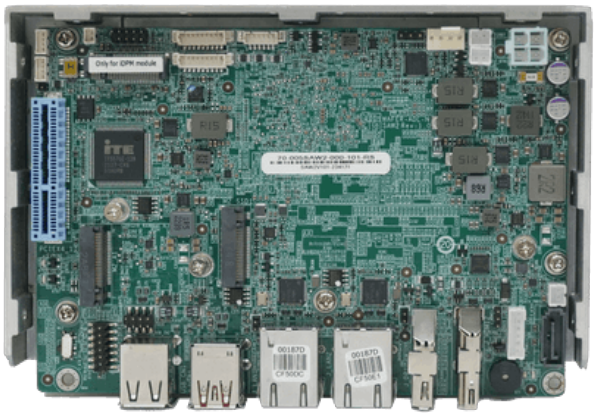
WAFER-ADL-N

3.5 SBC supports Intel® Alder Lake-N/Amston Lake on-board SoC, triple display with DP, HDMI™ and iDPM slot, dual 2.5 GbE, USB 3.2 gen 2, M.2, SATA 6Gb/s, COM and RoHS, -10°C ~ 60°C



Features

» Support 12th/13th Intel® Alder Lake-N/Amston Lake on board SoC

» Support on-board LPDDR5x 8GB memory, up to 16GB

» Support triple independent display via HDMI™, DP and iDPM slot

» Support PCIe x4 (x2 signal), M.2 M key and M.2 A key expansion

» Support two 2.5GbE LAN with I225V/I226V

Specifications

Form Factor	
Form Factor	3.5" SBC
System	
CPU	Intel® Alder Lake-N N97 SoC Processor
	Intel® Alder Lake-N N200 SoC Processor
Memory	Dual channal LPDDR5x 8G pre-installed (system max. 16G)
Memory Max.	16GB
Physical Characteristics	
Dimensions (LxWxH) (mm)	146mm x 102mm
Net Weight	350g
Storage	
Storage	1 x SATA : 6Gb/s
	1 x M.2(NGFF) : 1 x M.2 M Key 2280 (PCIe Gen3 x1)
I/O Interface	
Display Output	1 x HDMI™ : up to 4096 x 2160 @ 30Hz
	1 x Display Port : up to 4096 x 2160 @ 60Hz
	1 x iDPM (only for IEI eDP/LVDS/VGA module)
Ethernet	2 x LAN -
	LAN1: Intel® I225V/I226V 2.5GbE controller
	LAN2: Intel® I225V/I226V 2.5GbE controller
Audio	1 x HD Audio : 1 x iAUDIO, support IEI AC-KIT-888S Audio Module (2x5 pin)
I/O Interface	2 x Internal RS-232/422/485 (1x9 pin, P=1.25)
	2 x External USB 2.0 (Type A)
	2 x Internal USB 2.0 (2x4 pin, P=2.0)
	2 x External USB 3.2 Gen2x1 (10Gb/s, Type A)
Expansion	1 x PCIe x4 : PCIe Gen3 x2 signal
	2 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 2280 (PCIe Gen3 x1)

Power	
Power Consumption	12V@3.21A
	(Intel® Processor N97 with 8 GB 4800 MHz LPDDR5 memory, max. loading, EuP mode disabled)
	12V@2.67A
	(Intel® Processor N200 with 8 GB 4800 MHz LPDDR5 memory, max. loading, EuP mode disabled)
Power Supply	ATX/AT power supply
	Support AT/ATX mode
	ErP/EuP Compliant
Environment	
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-20°C~70°C
Humidity	5% ~95%, non-condensing

Ordering Information

WAFER-ADL-N97C-R10	3.5 SBC supports Intel® Processor N-series N97 SoC Processor，with 8GB LPDDR5x memory on board default, with DP ,HDMI™ iDPM ,dual 2.5 GbE , USB 3.2 gen 2 , M.2, SATA 6Gb/s, COM,PCIe x4 for riser card and RoHS
WAFER-ADL-N200C-R10	3.5 SBC supports Intel® Processor N-series N200 SoC Processor，with 8GB LPDDR5x memory on board default, with DP ,HDMI™ iDPM ,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-N SBC with heat spreader	1 x SATA with power cable kit
1 x QIG	