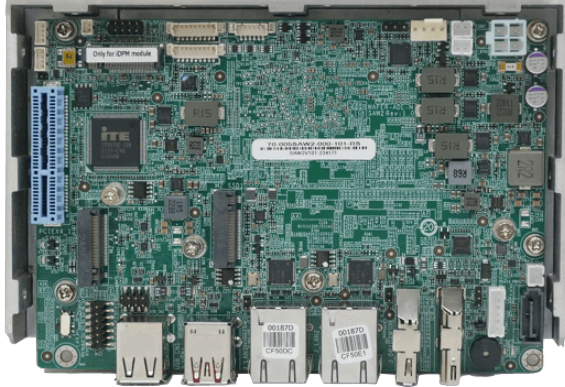


# WAFER-ADL-N

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<br>Intel® Alder Lake-N N200 SoC Processor                                                                                         |
| Memory                   | Dual channel 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<br>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<br>1 x Display Port : up to 4096 x 2160 @ 60Hz<br>1 x iDPM (only for IEI eDP/LVDS/VGA module)                                      |
| Ethernet                 | 2 x LAN -<br>LAN1: Intel® I225V/I226V 2.5GbE controller<br>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)<br>2 x External USB 2.0 (Type A)<br>2 x Internal USB 2.0 (2x4 pin, P=2.0)<br>2 x External USB 3.2 Gen2x1 (10Gb/s, Type A) |
| Expansion                | 1 x PCIe x4 : PCIe Gen3 x2 signal<br>2 x M.2(NGFF) -<br>1 x M.2 A Key 2230 for WIFI & BT (PCIe Gen3 x 1 & USB 2.0)<br>1 x M.2 M Key 2280 (PCIe Gen3 x1)                 |
| Power                    |                                                                                                                                                                         |
| Power Consumption        | 12V@3.21A<br>(Intel® Processor N97 with 8 GB 4800 MHz LPDDR5 memory, max. loading, EuP mode disabled)<br>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                                                                         |
| <b>Environment</b>    |                                                                                           |
| 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                                |                               |