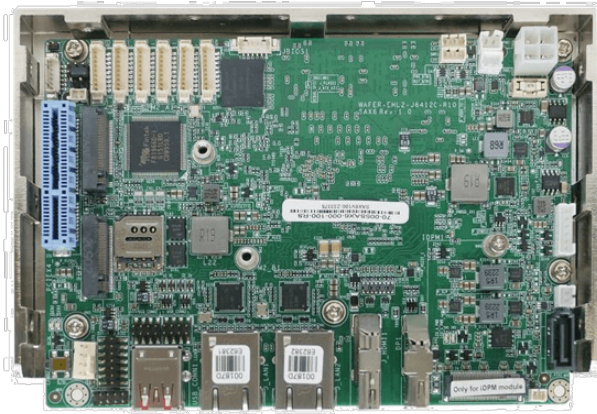


# WAFER-EHL2

3.5" SBC supports Intel® Celeron® J6412 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, iAUDIO and RoHS, 0°C ~60°C



## Features

- » 3.5" SBC supports Intel® Celeron® J6412 on-board SoC
- » Support Triple independent display via HDMI™, DP, iDPM
- » Support Dual Intel® 2.5GbE
- » Support one PCIe Gen3 x4 slot, M.2 A key, M.2 B key expansions

## Specifications

|                                 |  |
|---------------------------------|--|
| <b>System</b>                   |  |
| CPU                             | Onboard Intel® Atom™ x6000 series / Pentium® / Celeron® processor (Elkhart Lake platform)<br>Intel® Celeron® J6412 on-board SoC (up to 2.6GHz, quad-core, 1.5M Cache, TDP=10W)                               |
| Memory                          | Onboard 8GB 3200MHz LPDDR4x, support up to 16GB  |
| Memory Max.                     | up to 16GB   |
| Cooling method / System Fan     | 1 x CPU fan connector (1x4 pin)  |
| <b>Physical Characteristics</b> |  |
| Dimensions (LxWxH) (mm)         | 146mm x 102mm  |
| Net Weight                      | GW:850g / NW:350g  |
| <b>Storage</b>                  |  |
| Storage                         | 1 x SATA : 6Gb/s with 5V SATA power connector  |
| <b>I/O Interface</b>            |  |
| Display Output                  | 1 x Display Port : up to 4096 x 2160 @60Hz<br>1 x HDMI™ : up to 4096 x 2160 @30Hz<br>1 x iDPM : 3040 slot (only for iEi eDP/LVDS/VGA module)   |
| Ethernet                        | 2 x LAN -<br>LAN1: Intel® I225V 2.5GbE controller<br>LAN2: Intel® I225V 2.5GbE controller  |
| Audio                           | 1 x HD Audio : 1 x iAUDIO, support IEI AC-KIT-888S Audio Module ( 2 x 5 pin )  |
| I/O Interface                   | 1 x DIO : 12-bit digital I/O (2x7 pin)<br>2 x External USB 3.2 Gen2x1 : 10Gb/s<br>4 x Internal RS-232 1x9 pin, P=1.25<br>2 x Internal RS-232/422/485 1x9 pin, P=1.25<br>4 x Internal USB 2.0 2x4 pin, P=2.00 |
| Expansion                       | 2 x M.2(NGFF) -<br>1 x M.2 A Key for WIFI & BT (2230)(PCIe Gen3 x1/USB 2.0 signal)<br>1 x M.2 B key (3042/2242) w/ SIM holder (PCIe Gen3 x2/USB 2.0 signal)<br>1 x PCIe x4 : PCIe Gen3 x2 signal             |
| <b>Power</b>                    |  |
| Power Consumption               | 12V@3.24A (Intel® Celeron® J6412 2.0GHz with on-board 8GB 3200MHz LPDDR4 memory and EUP enabled)   |
| Power Supply                    | +12V DC input power (AT/ATX mode)  |

## Ordering Information

|                       |  |
|-----------------------|--|
| WAFER-EHL2-J6412C-R10 | 3.5" SBC supports Intel® Celeron® J6412 on-board SoC with 8GB LPDDR4x memory on board default, dual display with HDMI™ and iDPM slot , dual 2.5 GbE, USB 3.2 Gen 2, M.2, SATA 6Gb/s, 6 COM, iAUDIO, 0°C ~60°C and RoHS |
|-----------------------|--|

## Packing List

|  |                 |
|--|-----------------|
| 1 x WAFER-EHEHL2-J6412 single board computer | 1 x Power cable |
| 1 x SATA with power cable                    | 1 x QIG         |