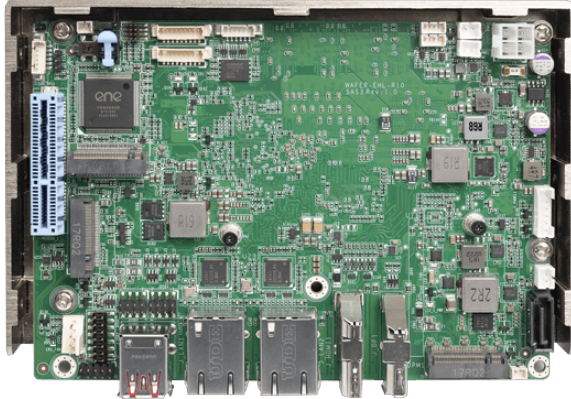


WAFER-EHL

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

System	
CPU	Onboard Intel® Atom™ x6000 series / Pentium® / Celeron® processor (Elkhart Lake platform) Intel® Celeron® J6412 on-board SoC (up to 2.6GHz, quad-core, 1.5M Cache, TDP=10W)
Memory	Onboard LPDDR4x 8GB default
Memory Max.	up to 16GB
Cooling method / System Fan	1 x System fan connector (1x4 pin)
Physical Characteristics	
Dimensions (LxWxH) (mm)	146mm x 102mm
Net Weight	GW: 850g / NW: 350g
Storage	
Storage	1 x SATA : 6Gb/s with 5V SATA power connector 1 x M.2(NGFF) : B Key (3042/2242) with PCIe Gen3 x2, support NVME storage
I/O Interface	
Display Output	1 x HDMI : up to 3840 x 2160@30Hz 1 x Display Port : up to 3840 x 2160@60Hz 1 x iDPM : 3040 slot (only for iEi eDP/LVDS/VGA module)
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 (2 x 5 pin)
I/O Interface	2 x Internal RS-232/422/485 : 1x9 pin, P=1.25 4 x Internal USB 2.0 : 2x4 pin, P=2.00 1 x DIO 12-bit digital I/O (2x7 pin) 2 x External USB 3.2 Gen2x1 : 10Gb/s
Expansion	1 x PCIe x4 : PCIe Gen3 x2 signal 2 x M.2(NGFF) - 1 x M.2 A Key for WIFI & BT (2230)(PCIe Gen3 x1/USB 2.0 signal) 1 x M.2 B key (3042/2242) w/ SIM holder (PCIe Gen3 x2/USB 2.0 signal)
Power	
Power Consumption	12V@3.14A (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-EHL-J6412C-R10	3.5" SBC supports Intel® Celeron® J6412 on-board SoC with 8GB LPDDR4x memory on board default, triple display with DP, HDMI and iDPM slot , dual 2.5 GbE, USB 3.2 Gen 2, M.2, SATA 6Gb/s, COM, iAUDIO, 0°C ~60°C and RoHS
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Packing List

1 x WAFER-EHL single board computer	1 x Power cable for P4
1 x SATA with power cable kit	1 x QIG

Options

iDPM-eDP-R10	eDP to eDP Connector converter board (For iEi Display Module)
iDPM-LVDS-R10	eDP to 24 bit dual channel LVDS converter board converter board (For iEi Display Module)
NWR-R2S-R10	PCIe x2 to two PCIe x1 riser card for NANO/WAFER on the right side
NWR-L2S-R10	PCIe x2 to two PCIe x1 riser card for NANO/WAFER on the left side
CM-WAFER-WOF-R10	Cooler Module(W/O FAN);Mechanical;for 3.5" WAFER series ; RoHS
CM-WAFER-WF-R10	Cooler Module(W/FAN);Mechanical;for 3.5" WAFER series ; RoHS
CB-USB02A-RS	Dual ports USB cable with bracket, with 2.0mm pitch USB connector;RoHS
AC-KIT-888S-R10	Realtek ALC888S 7.1 Channel HD Audio peripheral board,RoHS
32102-000100-200-RS	WIRE CABLE;POWER CABLE;SERIAL ATA POWER CABLE;3;150MM;18AWG;(A)MOLEX 8981-4M P=5.08;(B)SATA 15P 180° X2;ONE PCS PKG W/ LABEL;RoHS
32005-003500-200-RS	ROUND CABLE;RS-232/422/485;RS-232 CABLE;2;250MM;26AWG;(A)D-SUB 9P MALE+HEXAGONAL SCREW;(B)MOLEX 51021-0900 P=1.25;Wins Precision;RoHS