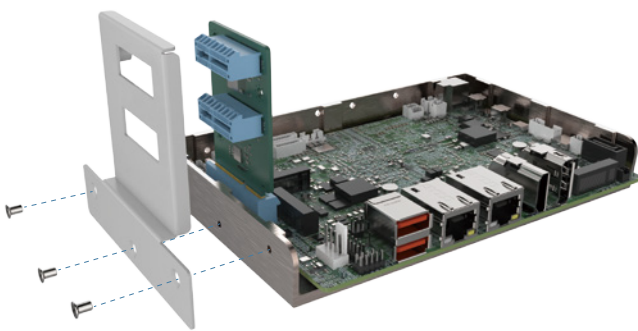# Peripherals

## PCIe Expansion Riser Cards for IEI 2.5"/3.5"/4" SBC `NEW`

IEI's latest 2.5"/3.5"/4" SBCs feature a PCIe x4/x2slot, which is a new design for IEI compact single board computer to expand functionality providing easy integration of PoE, video capture or I/O cards with a compatible riser card.

Outwards-facing PCIe Expansion

Although may take up more space, the outwards-facing expansionit can help enhance the airflow and heat transfer within the system. It is ideal for the chassis that is wide enough for the expansion card to be placed.

### *Inwards-facing PCIe Expansion*
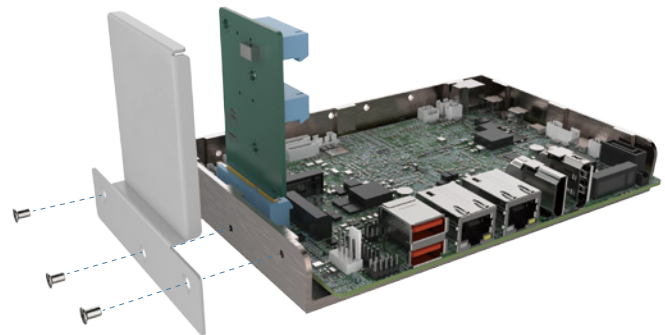
The inwards-facing expansionIt is suitable for installation where space is limited. With higher height to increase spacing between boards, the riser cardit can ensure efficient heat dissipation for space-constrained applications.

Motherboard	Riser Card	Description of Riser Card
WAFER-EHL-J6412C	NWR-L2S-R10	PCIe x2 to two PCIe x1, on the left side
	NWR-R2S-R10	PCIe x2 to two PCIe x1, on the right side
NANO-EHL-J6412C	NWR-L2S-N-R10	PCIe x2 to two PCIe x1, the left side
	NWR-R2S-N-R10	PCIe x2 to two PCIe x1, on the right side
HYPER-EHL	HPR-L2S-R10	PCIe x4 to two PCIe x2 riser card, on the left side
	HPR-L4S-R10	PCIe x4 to four PCIe x1, on the left side
	HPR-R2S-R10	PCIe x4 to two PCIe x2, on the right side
	HPR-R4S-R10	PCIe x4 to four PCIe x1, on the right side
WAFER-ADL-P	NWR2-L2S-R10	PCIe x4 to two PCIe x2, on the left side
	NWR2-R2S-R10	PCIe x4 to two PCIe x2, on the right side
NANO-ADL-P	NWR2-L2S-N-R10	PCIe x4 to two PCIe x2, on the left side
	NWR2-R2S-N-R10	PCIe x4 to two PCIe x2, on the right side
	NWR-L3S-N-R10	PCIe x3 to three PCIe x1, on the left side
	NWR-R3S-N-R10	PCIe x3 to three PCIe x1, on the right side

Peripherals

PCIe Expansion Riser Cards for IEI 2.5"/3.5"/4" SBC 🔴 NEW
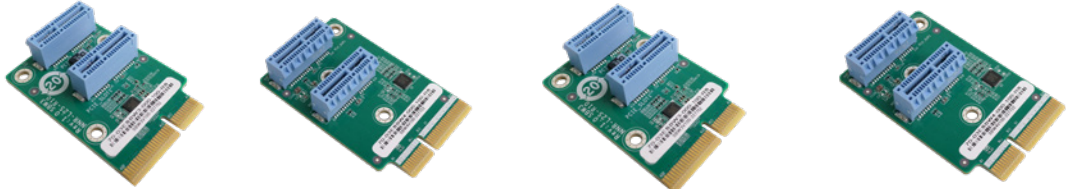
Model	NWR-L2S-R10	NWR-R2S-R10	NWR-L2S-N-R10	NWR-R2S-N-R10
Input	PCIe x2	PCIe x2	PCIe x2	PCIe x2
Output	Two PCIe x1	Two PCIe x1	Two PCIe x1	Two PCIe x1
Temperature	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C
Humidity	5 ~ 95% non-condensing	5 ~ 95% non-condensing	5 ~ 95% non-condensing	5 ~ 95% non-condensing
Direction	Left side	Right side	Left side	Right side
Dimensions	40 mm * 60 mm	40 mm * 65 mm	40 mm * 60 mm	40 mm * 65 mm
Applicable Motherboards	WAFER-EHL-J6412C		NANO-EHL-J6412C	

Model	HPR-L2S-R10	HPR-L4S-R10	HPR-R2S-R10	HPR-R4S-R10
Input	PCIe x4	PCIe x4	PCIe x4	PCIe x4
Output	Two PCIe x2	Four PCIe x1	Two PCIe x2	Four PCIe x1
Temperature	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C
Humidity	5 ~ 95% non-condensing	5 ~ 95% non-condensing	5 ~ 95% non-condensing	5 ~ 95% non-condensing
Direction	Left side	Left side	Right side	Right side
Dimensions:	50 mm * 58 mm	44 mm * 90 mm	43 mm * 60 mm	43 mm * 83 mm
Applicable Motherboards	HYPER-EHL			

Model	NWR2-L2S-N-R10	NWR2-R2S-N-R10	NWR-L3S-N-R10	NWR-R3S-N-R10	NWR2-L2S-R10	NWR2-R2S-R10
Input	PCIe x4	PCIe x4	PCIe x4	PCIe x4	PCIe x4	PCIe x4
Output	Two PCIe x2	Two PCIe x2	three PCIe x1	three PCIe x1	Two PCIe x2	Two PCIe x2
Temperature	0°C ~ 60°C	0°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C
Humidity	5 ~ 95% non-condensing	5 ~ 95% non-condensing	5 ~ 95% non-condensing	5 ~ 95% non-condensing	5 ~ 95% non-condensing	5 ~ 95% non-condensing
Direction	Left side	Right side	the left side	the right side	Left side	Right side
Dimensions:	55 mm * 60 mm	55 mm * 60 mm	40 x 100	40 x 100	55 mm * 60 mm	55 mm * 60 mm
Applicable Motherboards	NANO-ADL-P				WAFER-ADL-P	