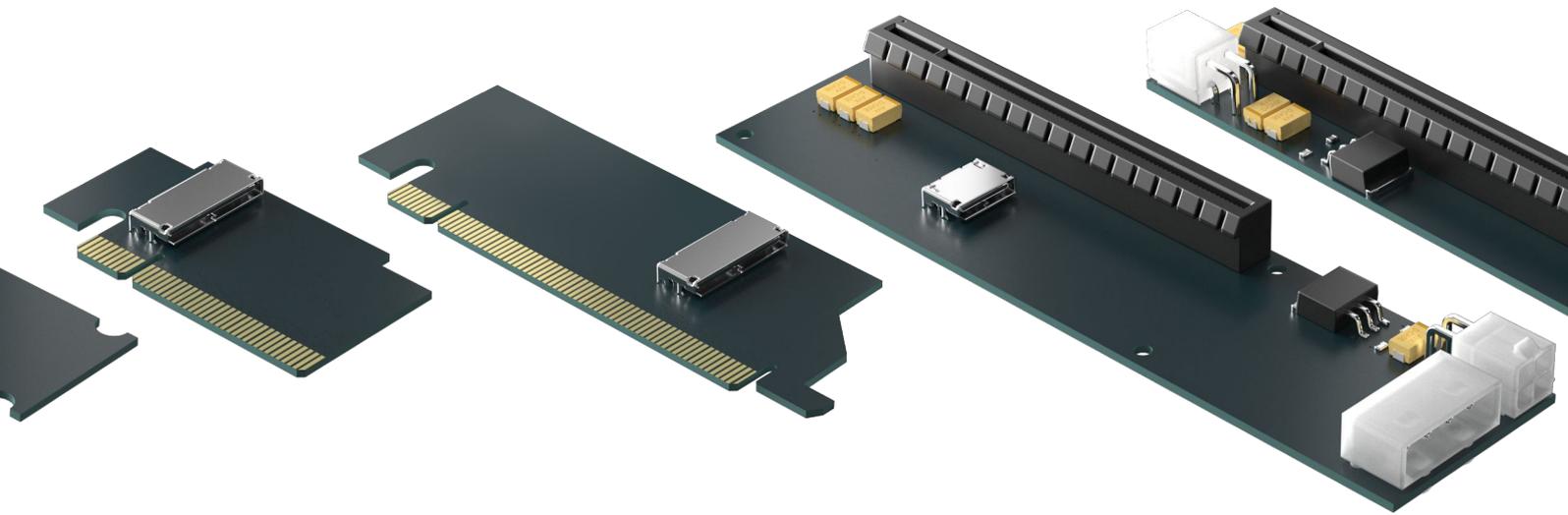




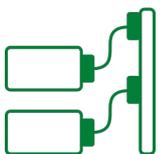
COMINO

HIGH-END PCI-E

X4 / X8 / X16 RISERS



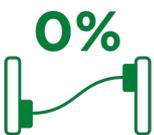
KEY ADVANTAGES



Connect GPUs or other PCI-e devices to the motherboard in limited space



Wide range of sizes including custom designs



0% signal loss is guaranteed up to 1-meter cable length



Use it to build systems for rendering, gaming, AI, and others



Separate cable to draw power to the riser means no additional signal noise for data cable



LED indication of the operating mode and the status of external connections

ABOUT COMINO RISERS

Risers or PCIe Bus Extenders are designed to remotely connect PCIe devices with minimal signal transmission loss. Comino risers are optimized for efficient work with PCIe devices at a distance from the signal source of up to 1000mm.

They comply with the PCIe 3.0 data transfer standard (only x4, x8, x16 type risers) and support speeds of up to 8 GT/s while supporting channel bandwidths of up to 15.7 GB/s in x16 mode.

Risers are equipped with their own +3.3V power converter, which allows them to be used with any ATX power supply with +5V and +12V voltage*. LED indication shows operating mode of risers and the status of external connections.

We use high-quality gold-plated Molex connectors and gold-plating for the PCB (ENIG, “gold-finger”) when manufacturing Comino risers. Comino risers are produced using lead-free soldering technology and comply with the RoHS environmental safety directive.

*Risers can be modified to use either +12V or +5V input voltage.

TECHNICAL SPECIFICATIONS

Supported Bus Type	PCIe from ver.1.0 to 3.0
Supported speed	
USB socket type x1, up to gen. 3	984.6 MB/s
Nano-pitch socket type x4, up to gen. 3	3.94 GB/s
Nano-pitch type x8, up to gen. 3	7.88 GB/s
Nano-pitch type x16, up to gen. 3	15.75 GB/s
Riser Power Supply	+12v — up to 5.5A; +5v — up to 2A
Operating temperature	+7°C — +60°C
Humidity	8% — 90% (without condensation)

RISER TYPES

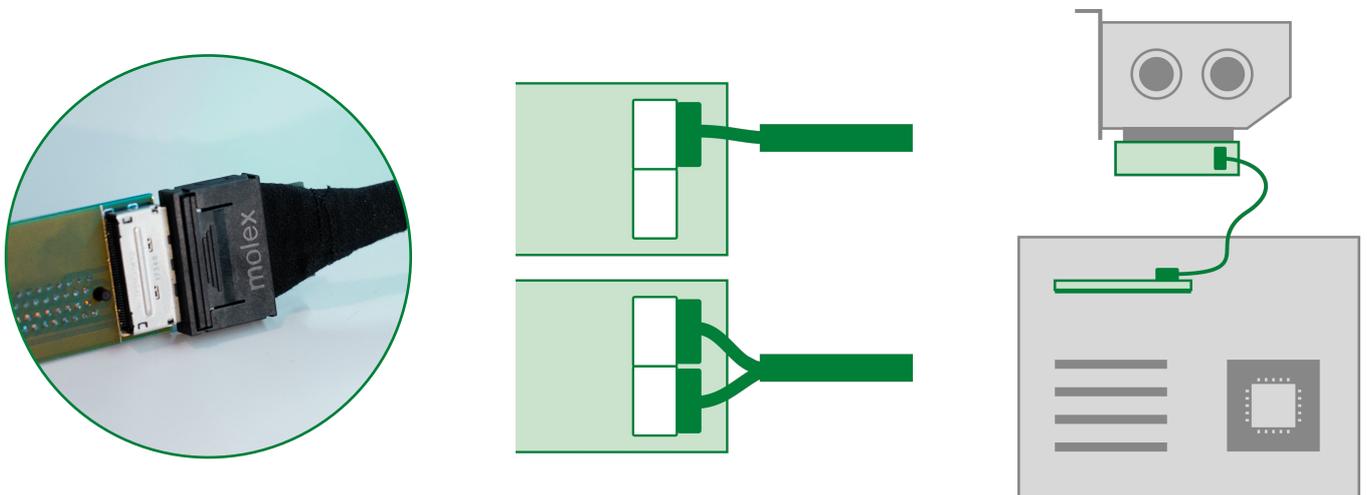
Multiple options of data and power connectors resulted in a vast assortment of Comino risers. They are designed to comply with most hardware placement schemes. The product line also includes a wide range of PCIe PCBs for various types of motherboards and chassis.

Risers can be used with any cooling device scheme since the dimensions do not exceed the PCIe connector height. Additionally, these universal risers have mounting holes.



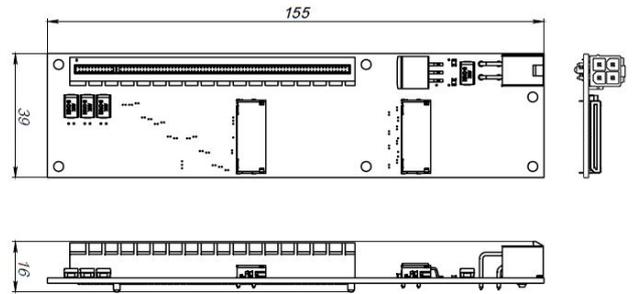
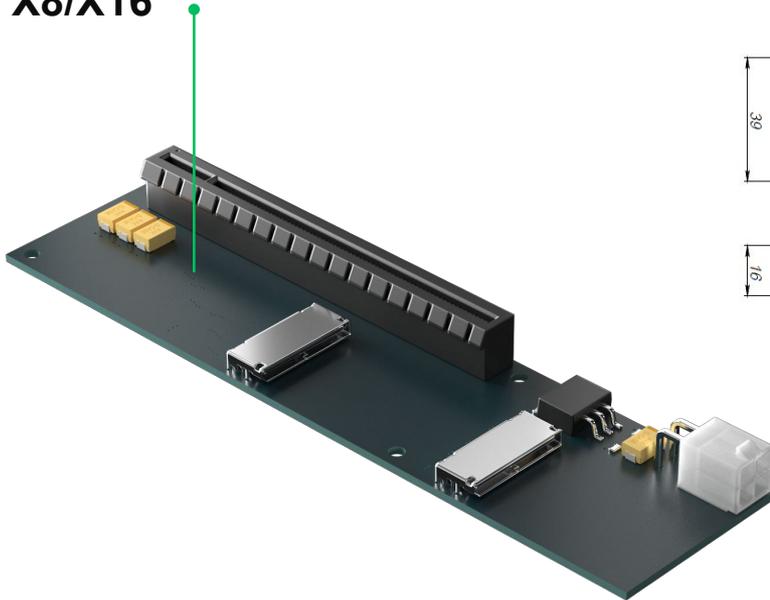
X4 / X8 / X16 HIGH-SPEED RISERS BASED ON MOLEX NANO-PITCH CONNECTORS

The PCIe bus connection in x4/x8 and x8/x16 risers is implemented according to a 2-cable circuit. Meaning you can use either 1 cable for half a bandwidth of the riser or 2 cables for full bandwidth.



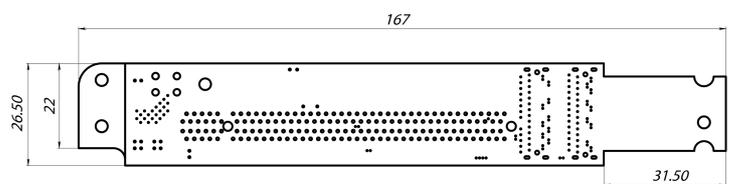
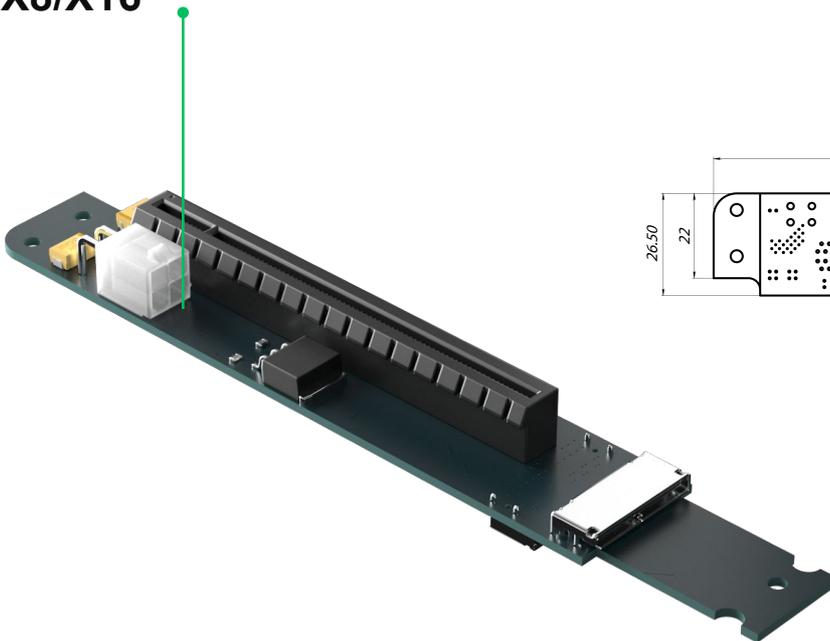
UNIVERSAL RISER

X8/X16

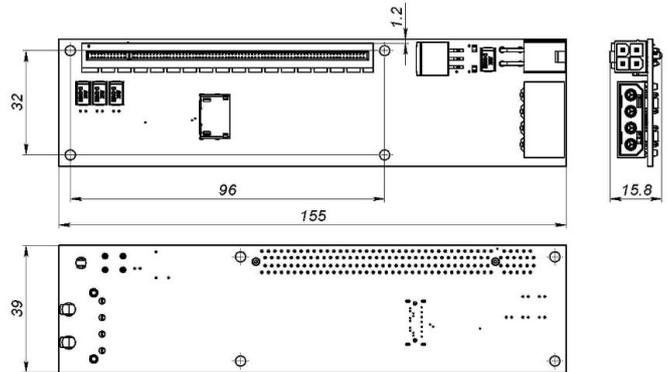
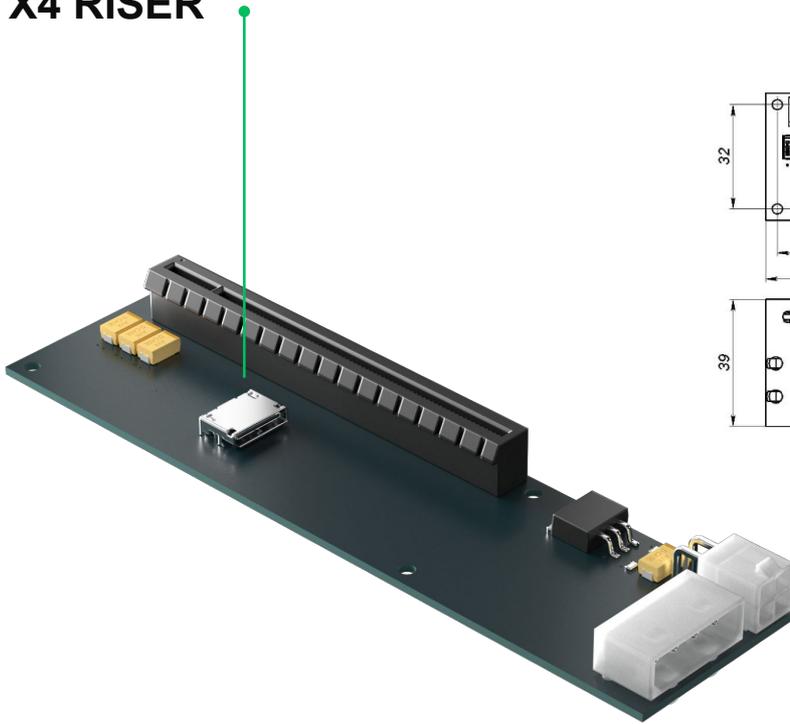


COMPACT RISER

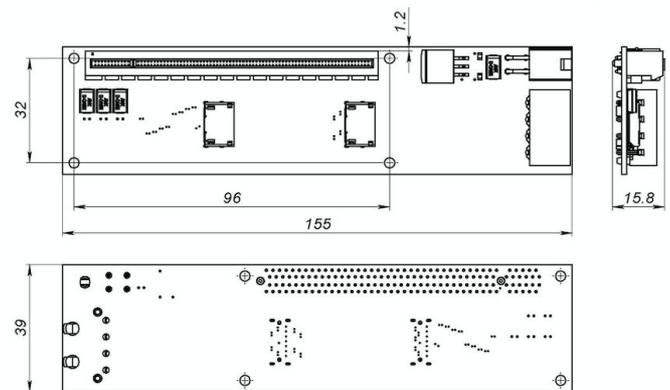
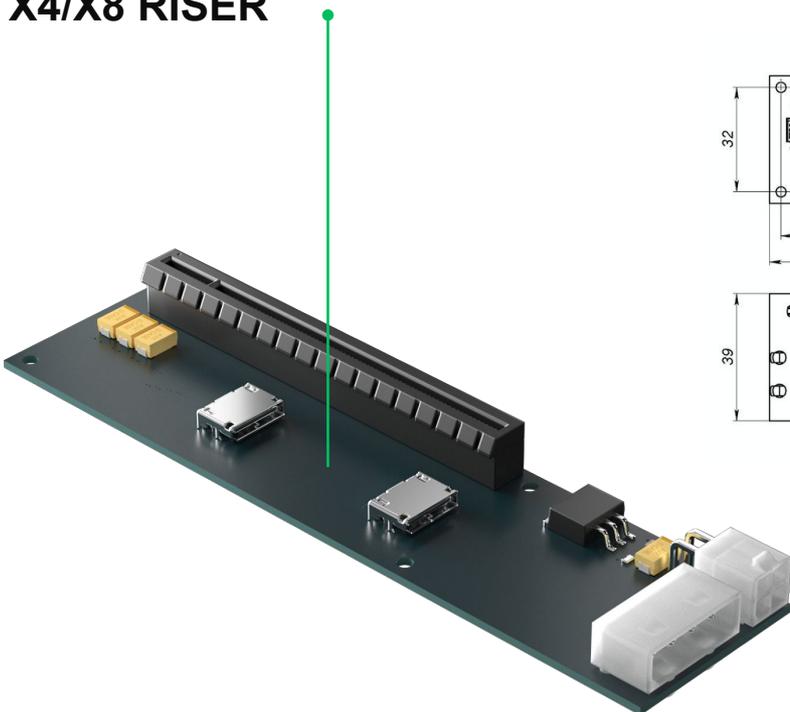
X8/X16



X4 RISER

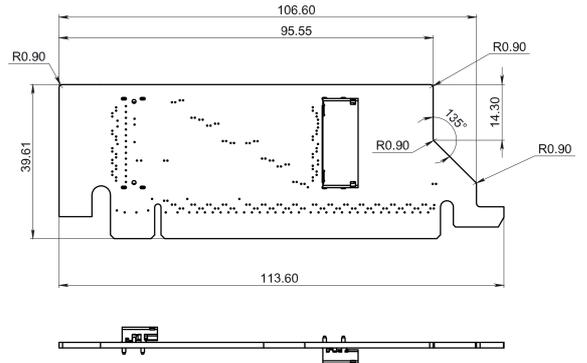
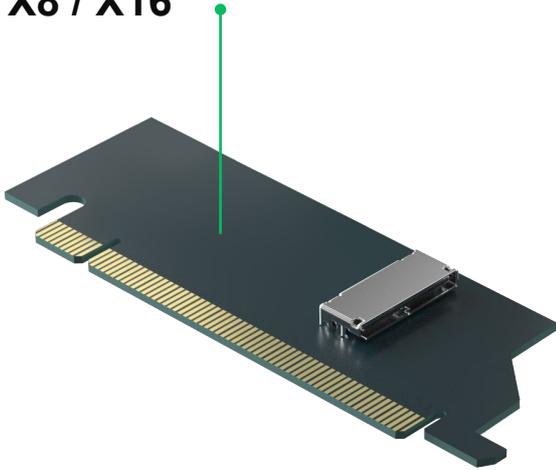


X4/X8 RISER

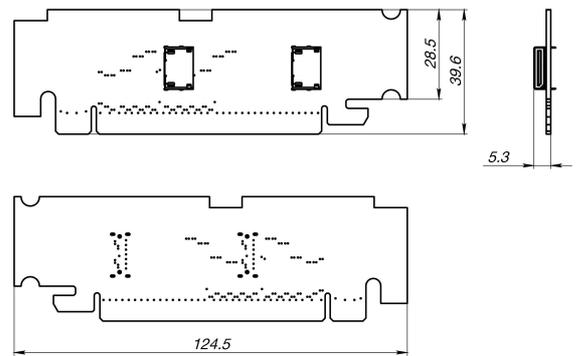
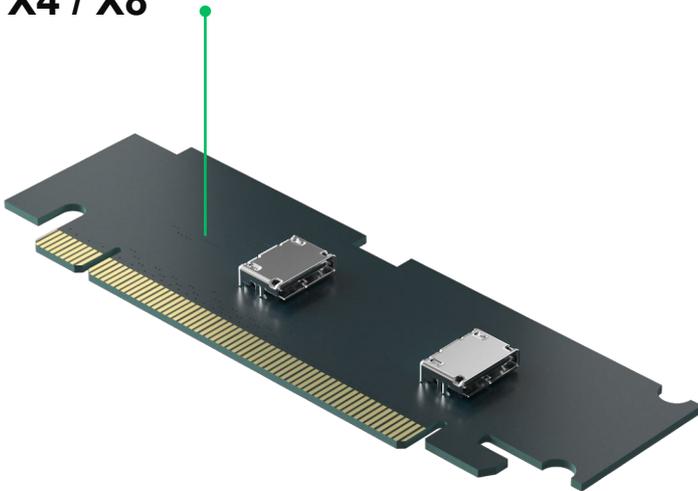


PCBS FOR EDGE CONNECTIONS

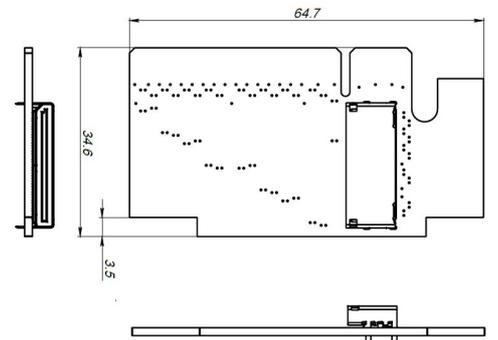
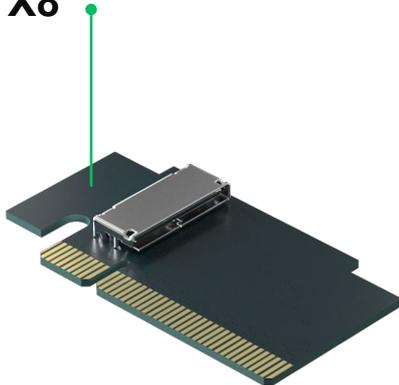
X8 / X16



X4 / X8



X8



X16/X16 RISER KIT EXAMPLE

DATASHEET COMINO RISERS

Comino Riser	X16 Universal Riser
Comino PCB for edge connection	X16 PCB
Molex Twinax cable to connect riser	500mm
Riser Power Supply	+12v (up to 5.5A) or +5v (up to 2A)

AVAILABLE MODIFICATIONS*

Comino Risers, up to gen 3.0	x4, x4/x8, x8/x16 Universal, x8/x16 Compact
Comino PCBs for edge connection	x4/x8, x8, x8/x16
Molex Twinax cable to connect riser	300mm, 500mm, 1000mm
Riser Power Supply	+12v (up to 5.5A), +5v (up to 2A)

* — custom modification can be designed on your request.

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CONTACTS

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For more product information

visit: www.comino.com

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