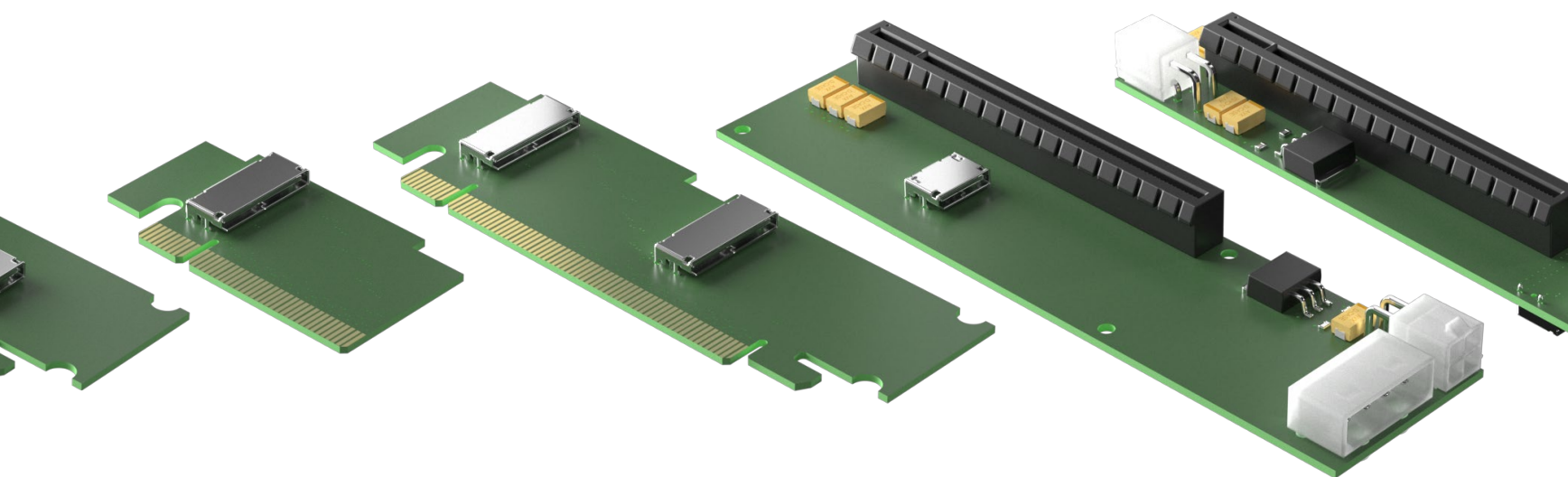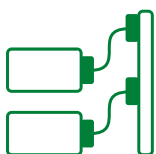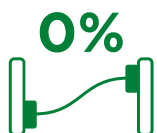# COMINO

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%
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

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 4.0 data transfer standard (only x4, x8, x16 type risers) and support speeds of up to 16.0 GT/s while supporting channel bandwidths of up to 31.51 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*.

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 4.0
Supported speed	
USB socket type x1, up to gen. 3	984.6 MB/s
Nano-pitch socket type x4, up to gen. 4	7.88 GB/s
Nano-pitch type x8, up to gen. 4	15.75 GB/s
Nano-pitch type x16, up to gen. 4	31.51 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.
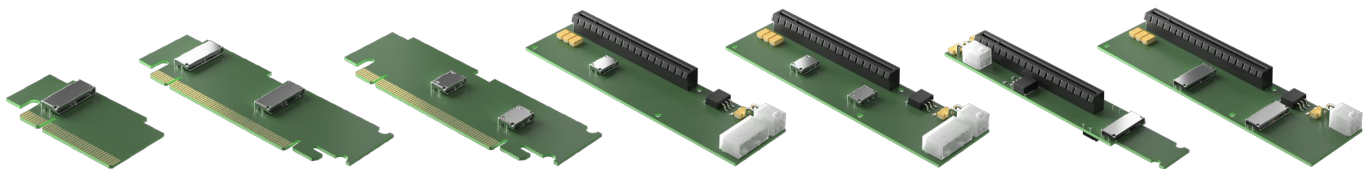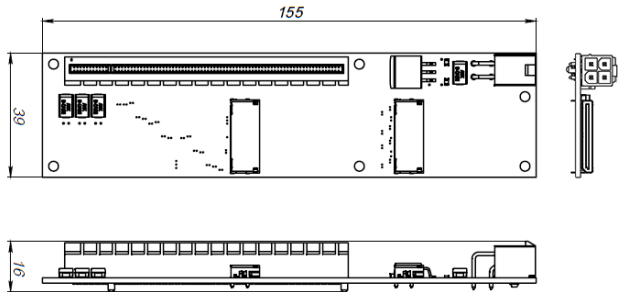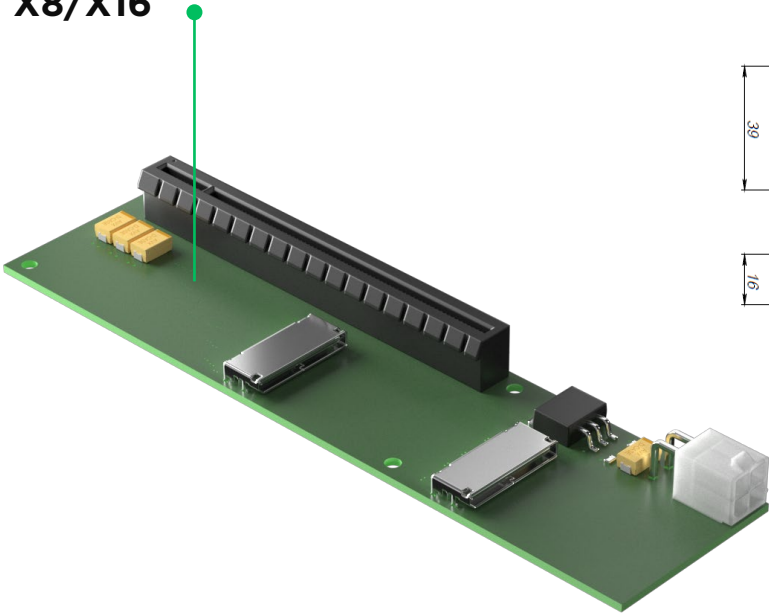

X4 / X8 / X16 HIGH-SPEED RISERS BASED ON MOLEX NANO-PITCH CONNECTORS

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.
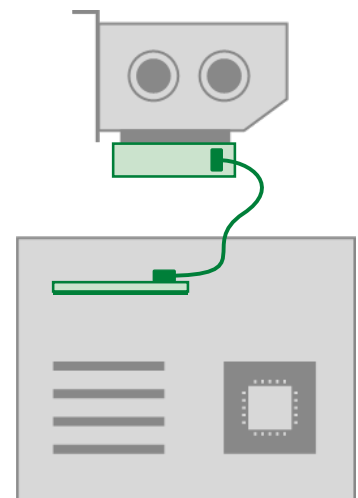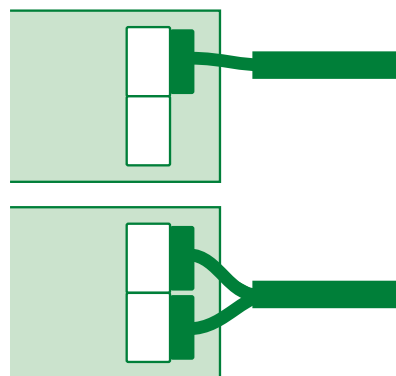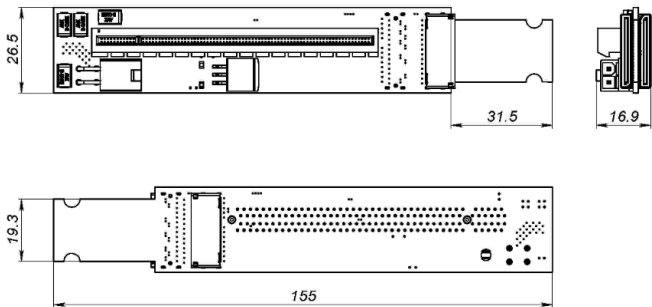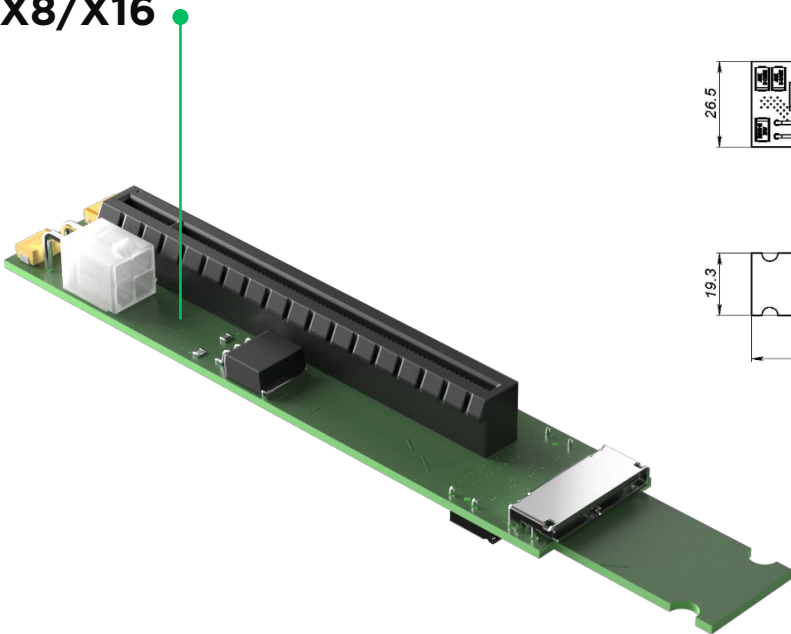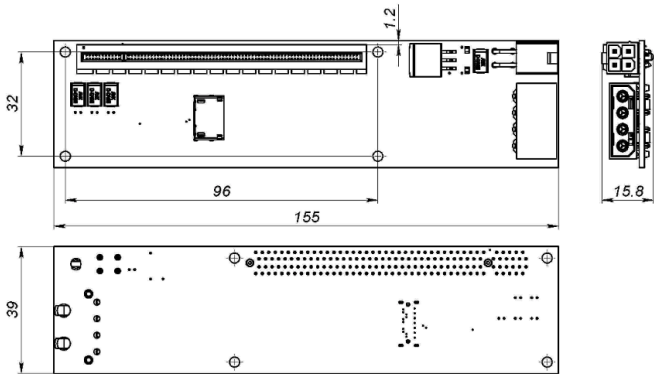
UNIVERSAL RISER
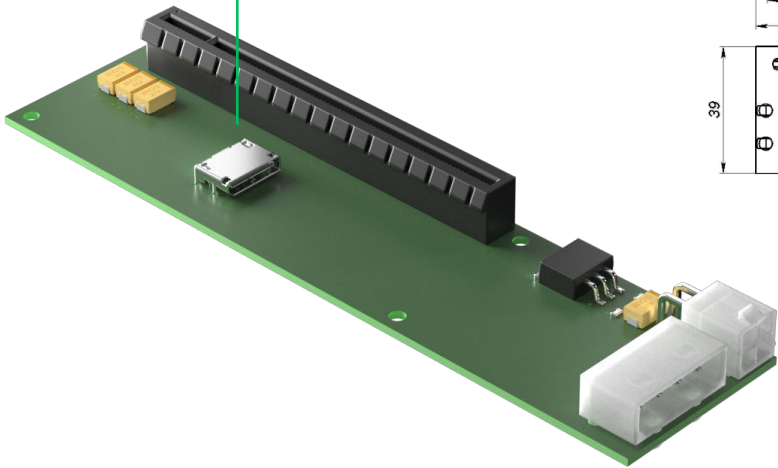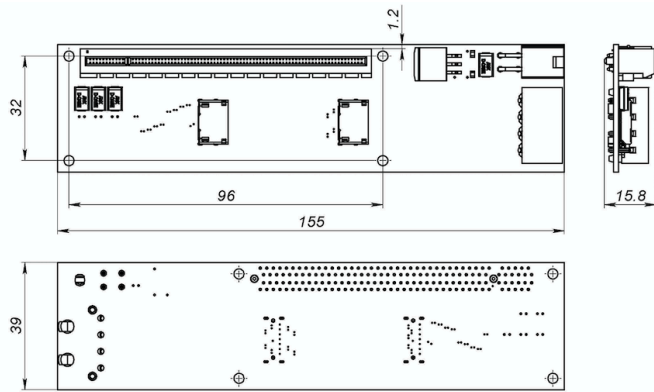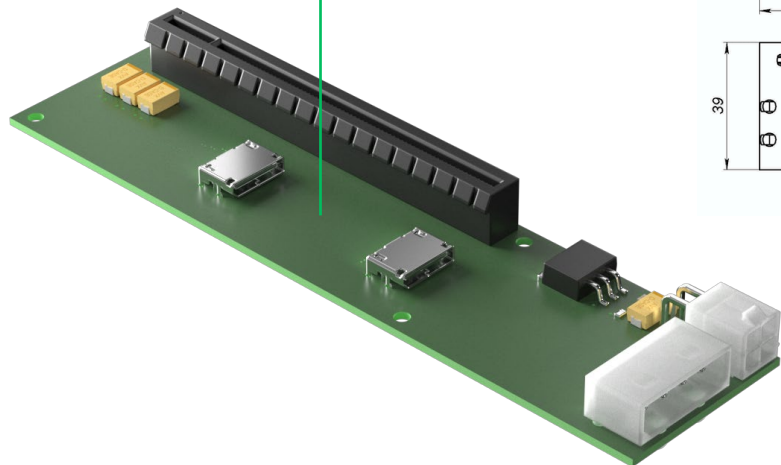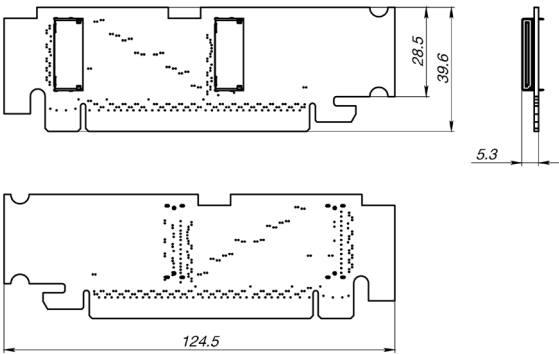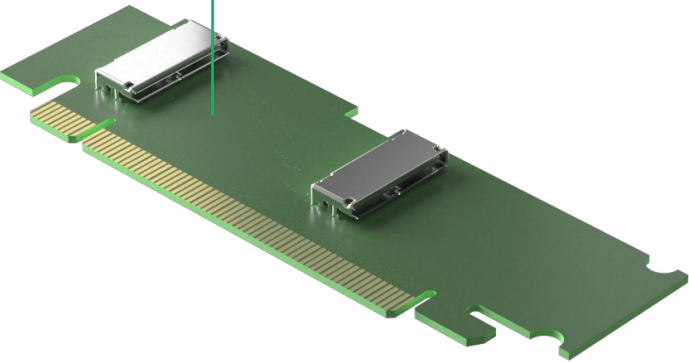### X8/X16

COMPACT RISER
X8/X16

X4 RISER

X4/X8 RISER

PCBS FOR EDGE CONNECTIONS

X8 / X16

X4 / X8
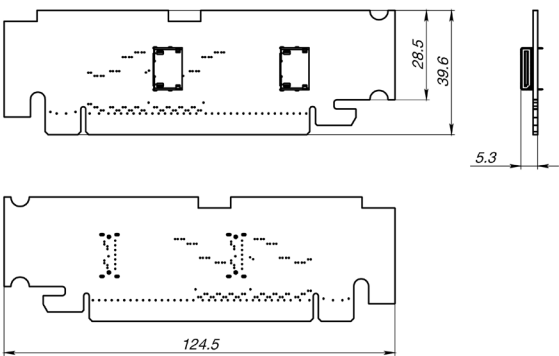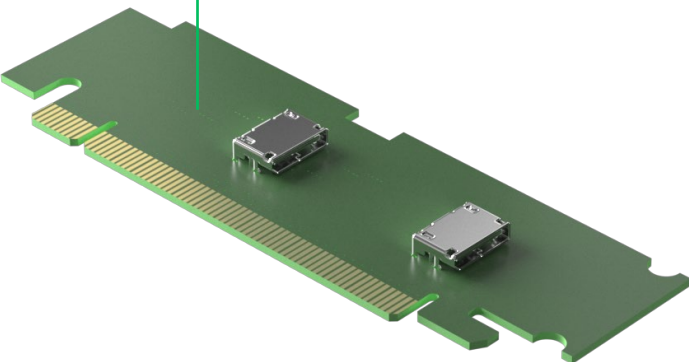
X8
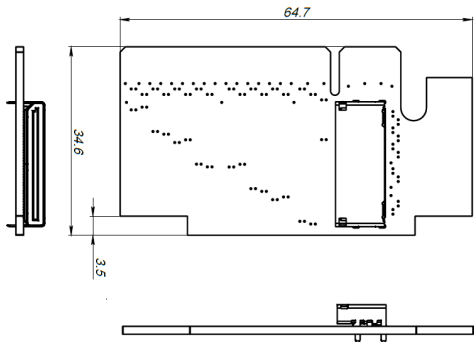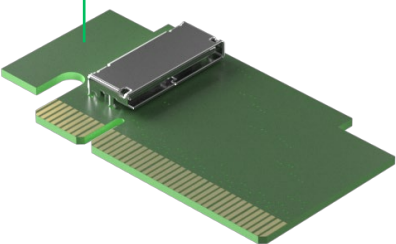
AVAILABLE MODIFICATIONS*

Comino Risers, up to gen 4.0	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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	@cominotech
	@cominotech
	@cominotech

CONTACTS

Website	www.comino.com
Phone	+357 2200 9888
Email	info@comino.com

COMINO UNITED STATES

Yulia Lane

Phone	+1 (812) 360-8368
Email	yla@comino.com

Valentin Roschin-Kulakov

Phone	+1 (424) 230-6265
Email	vr@comino.com

For more product information visit: **www.comino.com**