

# PCIe3.0 x4 4P Type A 10Gb USB 3.1 Adapter



## Product Description

LRSU3A42-4A(3U) is a PCI-Express 3.0 x4 quad-port Type A 10Gb USB 3.2 Gen2 adapter developed based on the ASM3142 master control solution. This USB adapter supports PCIe 3.0 and USB 3.2 Gen2 specifications, supports 10Gbps high speed, it bridges the PCIe interface to the four ports of USB 3.2 Gen2, enabling the external storage device to have a higher transfer rate. USB 3.2 Gen2 is twice as fast as USB 3.2 Gen1 and much faster than USB 2.0. It can connect four USB3.1 devices at the same time, and is backward compatible with USB 3.2 Gen1, USB2.1, USB2.0, PCIe 3.0, PCIe 2.1, PCIe2.0 interface specifications; at the same time, the port of LRSU3A42-4A(3U) supports hot Pluggable, users can connect and disconnect external drives as needed while in use.

## Operating System Support

- Windows 7 /8 /10 /11
- Windows Server 2008 /2012 /2016
- Windows Server 2019 /2022
- RHEL/Centos7.6 /7.9 /8.2 /8.3
- Deepin 15.11 /20 /20.6 /20.9
- Ubuntu 18.04.5
- Ubuntu 20.04.1
- Ubuntu 22.04.3
- SUSE 12.5
- FreeBSD 12.2 /13.2
- ZTE New Fulcrum 3.2.2 /5.0.5
- Asianux Server v7.0

## Product Features

- ASM3142 main control chip, USB 3.2 Gen2 host controller
- Support 4 USB 3.2 Gen2 ports
- Up to 10Gbps bandwidth performance
- Backward compatible with USB2.0 functions and devices
- PCIe x4 interface, compatible with slot x8, x16
- Compliant with USB Link Protocol Revision V1.0
- Compliant with Gen2 of Universal Serial Bus USB3.2 specification
- Support multiple USB devices to run simultaneously
- Supports Wake-on-LAN for USB keyboard or mouse devices
- Support USB device hot-swappable independent power supply, stable performance

- Galaxy Unicorn v10 SP1
- Galaxy Unicorn v10
- NeoKylin 7.6
- Zhongke Fangde desktop operating system 4.0
- Zhongke Fangde server operating system
- Tongxin UOS 20
- Emind OS
- NeoKirin 0.7.5
- VMware ESXi 6.7

## Technical Specifications

### HARDWARE

Model	LRSU3A42-4A(3U)	
Bus Type	PCI-Express 3.0 x4	
I/O Controller	ASM3142	
External Port	USB 3.2 Gen2 Type-A	
Number of ports	4	
Transfer Speed	10Gb/s	
ESD_Contact discharge	Contact discharge	±8KV(Class A)

### ESD test classification

**Class A:** Normal performance within the limits specified by the manufacturer, commissioner, or purchaser.

**Class B:** Temporary loss or reduction of function or performance, but can be recovered by itself after the disturbance stops, without operator intervention;

**Class C:** Temporary loss or degradation of function or performance that requires operator intervention to restore;

**Class D:** Irrecoverable loss of function or performance degradation due to damage to device hardware or software, or loss of data.

### CONNECTOR

Device Connector	USB Type-A
Host Bus	PCI Express 3.0 x4

### ENVIRONMENTAL

Humidity	15%-90%
Operating Temperature	0°C-60°C(32°F-140°F)
Storage Temperature	-20°C-70°C(-4°F-158°F)
Min Power(w)	3.828W
Max Power(w)	11.88W

### PHYSICAL CHARACTERISTICS

PCB size(unit:mm)	98*124*1.6
Product Weight(unit:g)	*

\* Product appearance and specifications are subject to change without notice.



## Technical Specifications

### PACKAGING INFORMATION

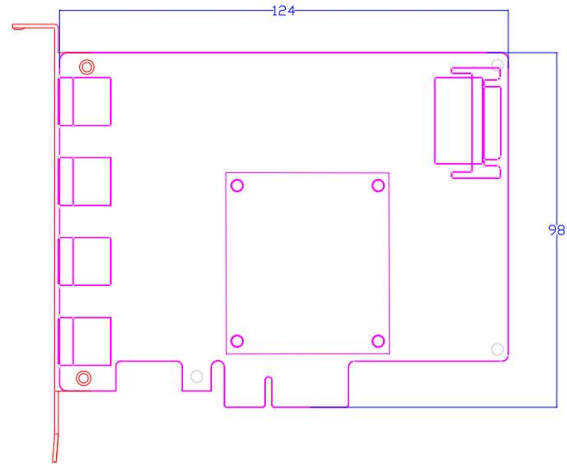
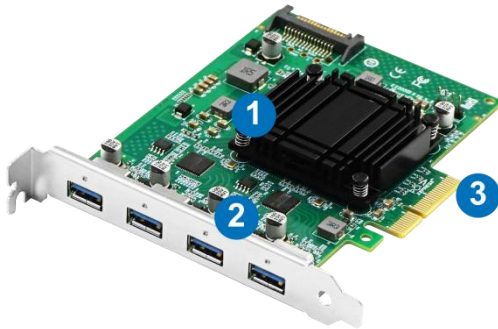
Package size (unit: mm)	250*170*32
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### WHAT'S IN THE BOX

Included in Package	1 - USB 3.2 Gen2 Adapter
	1 - Full bracket(installed)

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## Product Structure



1. Heat sink
2. 4\*USB3.2 interface
3. PCIe x4 bus

## About us

**Linkreal Co., Ltd** was established in 2006. It is a national high-tech enterprise specializing in the research and development, production, sales and service of Ethernet cards, storage expansion cards, and Internet of Things gateways. It owns two major brands "Linkreal" and "LR-LINK", and its product range covers USB cards, I/O expansion cards, NVMe cards, serial port cards, IoT gateways, industrial automation network cards, image acquisition cards, server network cards, network security Network card, national production network card, etc., has always been committed to providing professional data transmission and network security hardware overall solutions for global customers.

For a long time, Lianrui Electronics has attached great importance to technological innovation and quality assurance, has set up a professional laboratory, and introduced several advanced equipment such as high and low temperature aging, ESD test, surge test, etc., to conduct strict tests on various indicators of products. All products have passed FCC, CE, ROHS, and IOS certifications, and are widely used in machine vision, data centers, cloud computing, cloud storage, network security, smart education, industrial Internet of Things and other fields.

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