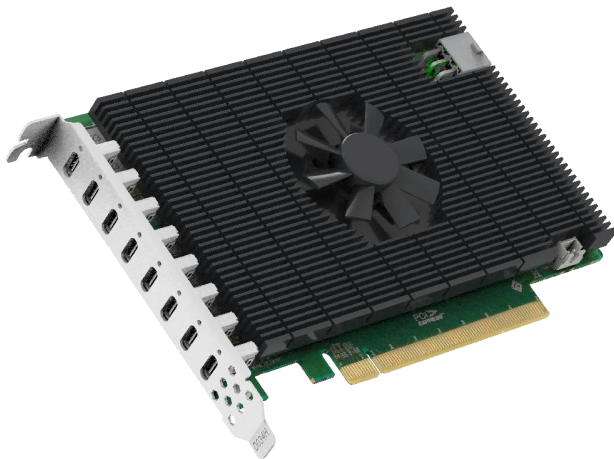


LRSU9B20-8C

PCIe3.0 x16 to USB 20Gbps Type-C 8-port Expansion Card



Key Features:

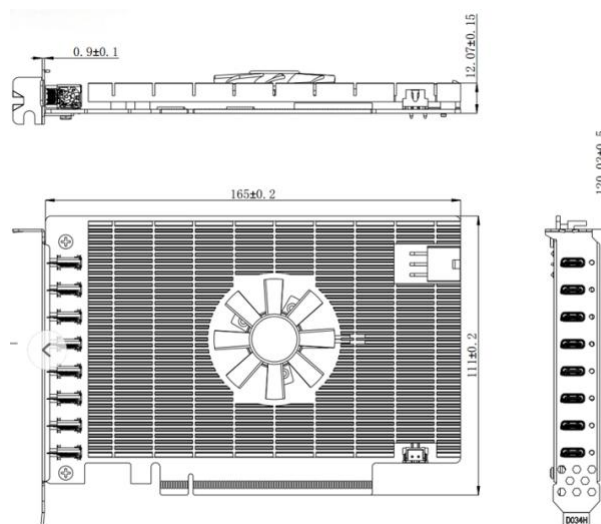
- ASMedia ASM3242 main controller solution
- PCIe Gen3 x16
- 8 independent 20Gbps USB3.2 Gen2 x2 ports
- PCIe 6Pin external power supply

Overview

LRSU9B20-8C is a PCIe Gen3 x16 eight-port USB 3.2 Gen2 x2 Type-C adapter independently developed by Linkreal Co., Ltd. based on ASMedia ASM3242 host controllers. It is designed for high-density and multi-concurrent industrial USB expansion applications.

Featuring 8.0GT/s high-speed transmission of PCIe Gen3 x16 bus, the adapter supports lossless full-bandwidth transmission and efficient bandwidth allocation. Each of the 8 independent ASM3242 chips controls a dedicated USB3.2 Gen2 x2 Type-C port with a maximum transfer rate of 20Gbps. All ports operate independently without bandwidth conflict and fully support complete USB3.2 Gen2 protocol functions. It supports mainstream operating systems including Windows and Linux with plug-and-play functionality, ensuring stable long-term high-speed parallel transmission for multiple devices.

This adapter provides reliable high-speed connectivity for USB devices and is ideal for industrial applications including machine vision, factory automation, precision inspection, logistics sorting, medical equipment, security monitoring and traffic monitoring.



Dimension(unit:mm)

Product Specifications		
model	LRSU9B20-8C	
Controller	ASMedia ASM3242	
Adapter type	USB Expansion card	
Standard	xHCI , UASP	
Host connector	PCIe3.0 x16	
Connectors	Type-C	
Port	Eight	
Data Rate	- USB 3.2 Gen 2 × 2 (Super Speed+): 20.0 Gbps - USB 3.2 Gen 2 (Super Speed+): 10.0 Gbps - USB 3.2 Gen 1 (Super Speed USB / USB 3.0): 5.0 Gbps - USB 2.0 High-Speed: 480.0 Mbps - USB 1.1 Full-Speed: 12.0 Mbps - USB 1.1 Low-Speed: 1.5 Mbps	
USB Port Power	5V 1500mA	
Power Supply	PCIe slots only	+12V,3A, Maximum 36W
	PCIe 6Pin connector+PCIe	Maximum 75W

Power	
Typical	25.2W (card only)
*Note: No-load typical; full-load varies by device.	
Supported Systems	
OS	• Windows • Windows Server • RHEL/Centos • Rocky • Deepin • Ubuntu • Kylin • NeoKylin • OpenKylin • SUSE • New Start • YimingOS • Fangde • UOS • openEuler • Fusion OS • Debian • iKuai Router • Sea Spider Soft Router
Technical Specifications	
working temperature	-10°C to 60°C
Storage Temperature	-40°C to 85°C
Storage Humidity	Maximum: 90% non-condensing relative humidity at 35 °C
Security Certificate	CE, FCC, RoHS

Physical Properties	
Product Size	165*111*1.6 mm
Package Size	250*170*32 mm
Packing List	
Adapter	*1
Product Warranty Card	*1
Bracket	Full High Bracket (installed) *1
Packaging	Carton + Blister Box

*This document contains information about products, services, and/or processes under development. All information provided here is subject to change without prior notice and the actual product shall prevail.

