

### PCI Express 4.0 x16 to Two SlimSAS SFF-8654 8i Retmer Adapter



#### Product Descripton

LRNV9F24 is a signal retmer adapter used to secure the link budget to meet the challenging signal integrity requirements for long PCIe Gen4 channel comprising PCB, connector and cable. It uses advanced signal conditoning techniques to compensate for the channel atenuaaon and remove the impacts of variousefij sources. It connects NVMe SSD or PCIe connectors via SlimSAS connector (SFF-8654).

#### Specificaaons

- PCI Express Base Specificaaon, r4.0, compapble PCIe 1.0&2.0&3.0
- Compliant with Intel PCIe 4.0 Retmer
- Compliant with SFF-8654 Specificaaon Version 1.2
- Compliant with NVM Express 1.3
- Support up to 4 NVMe SSDs
- Support hot plug, but need to be used with a backplane that supports hot-swappable, Such as Intel whitley Ice Lake server and AMD server backplane & TYAN TS65A-B8036

#### Funcnol Characteriss

- High Performance Retmer  
Compensate for channel loss up to 30dB by comprising PCB, connector and cable  
Eliminate deterministic and random jiri
- PCIe Standards and Compatibility  
Supplemental Features and Standard BGA
- Clocking  
Use standard 100MHz reference clock  
Supports the optional SRIS feature (Separate Reference Clock Independent Spreading)  
Support 100MHz reference clock output
- Directly connected to PCIe 4.0 U.2 NVMe SSD by SFF-8654 8i to 2x SFF-8639 cable
- Support bifurcated in quad x4 data link width configuraon (CPU and BIOS both support)
- Support bifurcated in two x8 data link width configuraon (CPU and BIOS both support)
- Build in SlimSAS (SFF-8654) 8i connector 2 sets, pin-out defined by SFF-9402 for high-performance storage connectivity
- Eight internal lanes per SlimSAS 8i port, 128GT/s per port
- PCIe Standard Full-profile bracket pre-installed and also a low-profile bracket for small form factor computer.

#### Applications

- It is targeted for meeting the higher performance PCIe Gen4 interconnecton needs of the following end applicaaons:
- Servers
- Storage Appliances
- Hardware Accelerators

The Motherboard with CPU and BIOS needs to support bifurcaton to ensure PCIe x16 link width to bifurcate two x8 link width or four x4 link width for NVMe SSD, Otherwise this card can only support One PCIe x8 link width.

Suitable for higher performance of PCIe Gen4 connectons for Storage Servers, Data Center, Servers RAID and Controllers.

#### Operatng System Support

- The adapter does not require a driver for operaton or communicaton to aaached NVMe drives. The drives are presented natvely to the host and use the naave NVMe drivers.
- Redhat
- Free BSD
- Vmware
- Linux
- Windows

## Technical Specifications

## HARDWARE

Model	LRNV9F24
MAX number of Device	4 internal
Bus Type	PCI Express
Main Chipset	Retmer
Compatble Device Type	U.2 (PCIe_NVMe SSD, SFF-8639)
Interface	Slim SAS SFF-8654 8i
Device Connector	2*SFF-8654(74 Pin, x8 PCIe Gen 4)
Host Bus Type	PCI Express x16

## Optional Accessories

Optional Cables	Slim SAS 8i to 2x SFF-8639 Cable
	Slim SAS 8i to Slim SAS 8i Cable
	Slim SAS 8i to 2x Slim SAS 4i Cable

## ENVIRONMENTAL

Humidity	15% ~ 90%
Operatng Temperature	5 C to 50 C (41 F to 122 F)
Storage Temperature	-25 C to 70 C (-13 F to 158 F)

## PHYSICAL CHARACTERISTICS

Dimension	146.5mm*67.9mm
Product Weight	155g

## HARDWARE WARRANTY

Warranty	2 Years
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## PACKAGING INFORMATION

Shipping (Package) Weight	5.86 oz [166 g]
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## WHAT'S IN THE BOX

Included in Package	1 - PCI Express 4.0 x16 to Two SlimSAS SFF-8654 8i Adapter
	1 - full-height bracket (installed)
	1 - low-profile bracket
	2 Bracket screws

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

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