

# HighPoint RS4243AS Compatibility List

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This document serves as a general reference for the compatibility of the HighPoint RocketStor 4243AS (RS4243AS) with specific motherboards and hard drives, as well as a reference for the compatibility of the built-in NVMe-oF adapter.

Key contents include:

- NVMe-oF Adapter Compatibility: Compatible NICs, enclosure requirements, compatible operating systems, Ethernet switches, cables, and software.
- RS4243AS Platform Compatibility: Motherboard compatibility, U.2 NVMe SSD compatibility, U.2 NVMe SSD Hot-plug compatibility.

# 1. NVMe-oF Adapter (WD RapidFlex C2000) Compatibility

WD RapidFlex C2000 compatibility manual link: [User Guide - RapidFlex™ C2000 Target](#)

## 1.1. Compatible Initiators

The following tables display initiator devices compatible with the C2000 Target.

### NVIDIA®, Mellanox® ConnectX®-5

Model	Protocol(s)	Firmware	Driver
MCX556A-ECAT	TCP	16.35.4030-LTS	<b>RHEL 9.4:</b> <ul style="list-style-type: none"> <li>Inbox: 5.14.0-427.13.1.el9_4.x86_64</li> <li>OFED: 23.10-3.2.2.0-LTS</li> </ul> <b>Ubuntu 24.04:</b> <ul style="list-style-type: none"> <li>Inbox: 6.8.0-48-generic</li> <li>OFED: 24.07-0.6.1.0</li> </ul>
MCX516A-CCAT	RoCE v2, TCP		
MCX516A-CDAT	RoCE v2		

### NVIDIA, Mellanox ConnectX-6

Model	Protocol(s)	Firmware	Driver
MCX614106A-CCAT	RoCE v2, TCP	20.39.3560-LTS	<b>RHEL 9.4:</b> <ul style="list-style-type: none"> <li>Inbox: 5.14.0-427.13.1.el9_4.x86_64</li> <li>OFED: 23.10-3.2.2.0-LTS</li> </ul> <b>Ubuntu 24.04:</b> <ul style="list-style-type: none"> <li>Inbox: 6.8.0-48-generic</li> <li>OFED: 24.07-0.6.1.0</li> </ul>
MCX623106AN-CDAT	RoCE v2, TCP	22.39.3560-LTS	
MCX623106AS-CDAT	RoCE v2, TCP		

### Broadcom®

Model	Protocol(s)	Firmware	Driver
P2100G	RoCE v2	230.1.116.0	<b>RHEL 9.2:</b> 230.1.116.0

### SANBlaze

Model	Protocol(s)	Firmware	Driver
V10.7-64-Beta15-C8	RoCE v2, TCP	Inbox	Inbox

### Western Digital RapidFlex

Model	Protocol(s)	Firmware	Driver
A2000 Initiator	RoCE v2, TCP	A2000Ifw_2.0.0	N/A
C2000 Initiator			

## 1.2. Enclosure Requirements

This section provides requirements and recommendations for the storage enclosure containing the C2000 Target.

### Enclosure Features

Feature	Requirement
Add-In-Card Receptacle	Compliant with PCI Express™ Card Electromechanical Specification, Revision 1.1 or greater (compliant pinout, with +12V current capability of at least 1.5A)
Airflow	> 200 LFM of airflow across the heatsink, < 55°C, operating at < 2000m altitude
PCIe Compatibility	Gen3, Gen4
Power	~10W

### 1.3. Compatible Operating Systems

The following table lists operating systems compatible with the C2000 Target.

Operating System	Version	Kernel
Ubuntu	24.04 (RoCE & TCP)	LTS 6.8.0-45-generic
Red Hat Enterprise Linux	9.2 (RoCE & TCP)	LTS 5.14.0-284.11.1.el9_2.x86_64
	9.4 (RoCE & TCP)	LTS 5.14.0-427.13.1.el9_4.x86_64

### 1.4. Compatible Ethernet Switches

The following table lists Ethernet switches compatible with the C2000 Target.

Manufacturer	Model	FW Version
NVIDIA®	Spectrum® SN2100	3.10.4504
	Spectrum SN2700	3.10.4504
	Spectrum SN3700	3.10.4504
	Spectrum SN4700	3.10.4504
Cisco®	Nexus® 3000 C3232C	NXOS: 9.3.14
	Nexus 9000 C9332D-GX2B	NXOS: 10.5.1
Arista®	7050CX3-32S-R	4.27.0F

### 1.5. Compatible Cables

The following table lists cables compatible with the C2000 Target.

Manufacturer	Type	Model	Length
NVIDIA / Mellanox	Active	MFA1A00-C003	3m
		MFA1A00-C005	5m
		MFA1A00-C010	10m
		MFA1A00-C050	50m
	Passive	MCP1600-C001E30N	1m
		MCP1600-C002E30N	2m
		MCP1600-C003E30L	3m
		MCP1600-C005	5m

### 1.6. Compatible Software

The following table lists software compatible with the C2000 Target.

Software	Version
NVMe-CLI	1.16 and later

## 2. RS4243AS Compatibility

### 2.1. Motherboard Compatibility List

**Note:** The recommended PCIe slot we filled in is based on the description of the motherboard manual.

Manufacture	Product Name	Chipset	Recommended PCIe slot
Supermicro	SYS-2025HS-TNR	AMD EPYC 9004	Slot3 Slot5 Slot7

### 2.2. U.2 NVMe SSD Compatibility List

Manufacture	Model/Series	Form Factor	Capacity	Remark
<b>PCIe Gen3</b>				
Samsung	983 DCT	U.2	960GB, 1.92TB	
KIOXIA	CM5-R	U.2	960GB, 1.92TB, 3.84TB, 7.68TB, 15.36TB	
Western Digital	Ultrastar DC SN630	U.2	960GB, 1.92TB, 3.84TB, 6.4TB,	
Western Digital	Ultrastar DC SN640	U.2	800GB, 1600GB, 3200GB, 6400GB	
<b>PCIe Gen 4</b>				
KIOXIA	CD7-R	U.2	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
KIOXIA	CD8-R	U.2	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
Solidigm	D5-P5336	U.2	7.68TB, 15.36TB, 30.72TB, 61.44TB, 122.88TB	
Micron	7450 MAX	U.3	800GB, 1.6TB, 3.2TB, 6.4TB, 12.8TB	
Micron	7450 PRO	U.3	960GB, 1.92TB, 3.84TB, 7.68TB	
Micron	7400 PRO	U.3	960GB, 1.92TB, 3.84TB, 7.68TB	
Western Digital	Ultrastar DC SN650	U.3	7.68TB, 15.36TB	
<b>PCIe Gen5</b>				
KIOXIA	CM7-V	U.3	12800GB, 6400GB, 3200GB, 1600GB	
KIOXIA	CM7-R	U.3	30720GB, 15360GB, 7680GB, 3840GB, 1920GB	
KIOXIA	CD8P-R	U.2	30720GB, 15360GB, 7680GB, 3840GB, 1920GB	

### 2.3. U.2 NVMe SSD Hot-plug Compatibility List

Manufacture	Model/Series	Form Factor	Capacity	Remark
<b>PCIe Gen3</b>				
Samsung	983 DCT	U.2	960GB, 1.92TB	
KIOXIA	KCM51RUG960G	U.2	960GB, 1.92TB, 3.84TB, 7.68TB, 15.36TB	
Western Digital	Ultrastar DC SN630	U.2	960GB, 1.92TB, 3.84TB, 6.4TB,	
Western Digital	Ultrastar DC SN640	U.2	800GB, 1600GB, 3200GB, 6400GB	
<b>PCIe Gen4</b>				
KIOXIA	CD7-R	U.2	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
KIOXIA	CD8-R	U.2	960GB, 1920GB, 3840GB, 7680GB, 15360GB	
Solidigm	D5-P5336	U.2	7.68TB, 15.36TB, 30.72TB, 61.44TB, 122.88TB	
Micron	7450 MAX	U.3	800GB, 1.6TB, 3.2TB, 6.4TB, 12.8TB	
Micron	7450 PRO	U.3	960GB, 1.92TB, 3.84TB, 7.68TB, 15.36TB	
Micron	7400 PRO	U.3	960GB, 1.92TB, 3.84TB, 7.68TB	
Western Digital	Ultrastar DC SN650	U.3	7.68TB, 15.36TB	
<b>PCIe Gen5</b>				
KIOXIA	CM7-V	U.3	30720GB, 15360GB, 7680GB, 3840GB, 1920GB	
KIOXIA	CM7-R	U.2	30720GB, 15360GB, 7680GB, 3840GB, 1920GB	
KIOXIA	CD8P-R	U.3	12800GB, 6400GB, 3200GB, 1600GB	

If you have any questions about NVMe compatibility, please contact us at [Sales@highpoint-tech.com](mailto:Sales@highpoint-tech.com)