Support Matrix

OpenFlex® Data24 4000 Series

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Revision History

Date	Revision	Comment
December 2025	01	Initial version of the Support Matrix. **Note:** The Support Matrix is the replacement for the Compatibility Matrix.
April 2026	06	New WD branding update
July 2026	07	• New WD branding update • Added support for ConnectX-7 • Updated support for ConnectX-6 • Updated support for ConnectX-5 • Updated support for NetXtreme-E Series P2100G • Updated firmware for Supported Drives *(page 3)*

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OpenFlex Data24 4000 Series

Figure 1: OpenFlex® Data24 4000 Series

The Western Digital System Integration Lab tested the OpenFlex Data24 4000 Series for the following hardware components and operating systems to demonstrate functional compatibility. Other combinations of hardware and software are expected to function with this product family, but have not been evaluated.

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1.1 Supported NICs

Table 2: Supported NICs

Manufacturer	Model	Device Driver Version	Device Firmware Version
Mellanox	ConnectX-5 EN MCX516A-CCAT Ethernet Adapter Card	Mellanox OFED: 24.10-3.2.5-LTS	16.35.4506 (MT_0000000012)
	ConnectX-6 EN MCX623106AS-CDAT Ethernet Adapter Card	Mellanox OFED: 24.10-3.2.5-LTS	22.43.3608 (MT_0000000359)
	ConnectX-7 EN MCX713106AC-CEAT Ethernet Adapter Card	Mellanox OFED: 24.10-3.2.5-LTS	28.43.3608 (MT_0000000842)
Broadcom	NetXtreme-E Series P2100G PCIe Ethernet NIC	Ethernet bnxt_en: 1.10.3-235.1.154.0	235.1.157.0 pkg 235.1.160.0

1.2 Supported Switches

Table 3: Supported Switches

Manufacturer	Model	ASIC Firmware Version	Software Version
Mellanox	MSN2100-CB2F Open Ethernet Switch	13.2008.1310 Cumulus Linux 4.4	X86_64 3.9.1020
	MSN2410-CB2F Open Ethernet Switch	13.2000.2162 Cumulus Linux 4.4	X86_64 3.8.2004
	MSN2700-CS2F Open Ethernet Switch	13.2008.1910 Cumulus® Linux® 4.4	X86_64 3.9.1604
	MSN3700-VS2FC Open Ethernet Switch	Cumulus Linux 5.11.0	N/A

1.3 Supported Drives

The drives listed have been fully tested for compatibility, but not all capacity and encryption type combinations of all drive families have been tested. Some drives have been tested for compatibility only with the 4100 series. Refer to the Series Compatibility column. The Drive Firmware column indicates the drive firmware version used for testing.

Table 4: Supported Device List

Device	Volume[1]	Series Compatibility	Encryption	Drive Firmware	Manufacturer Part Number
Kioxia CM7-V PCIe Gen 5.0	1.6 TB	4100 and 4200	SIE	1UETE106	KCMYXVUG1T60
Kioxia CM7-V PCIe Gen 5.0	3.2 TB	4100 and 4200	SIE	1UETE106	KCMYXVUG3T20
Kioxia CM7-V PCIe Gen 5.0	6.4 TB	4100 and 4200	SIE	1UETE106	KCMYXVUG6T40
Kioxia CM7-V PCIe Gen 5.0	12.8 TB	4100 and 4200	SIE	1UETE106	KCMYXVUG12T8
Samsung PM1743 SSD PCIe Gen 5.0	1.92 TB	4100 and 4200	SE	EPK9AB5Q	MZWLO1T9HCJR-00A07/00B07
Samsung PM1743 SSD PCIe Gen 5.0	3.84 TB	4100 and 4200	SE	EPK9AB5Q	MZWLO3T8HCLS-00A07/00B07
Samsung PM1743 SSD PCIe Gen 5.0	7.68 TB	4100 and 4200	SE	EPK9AB5Q	MZWLO7T6HBLA-00A07/00B07
Samsung PM1743 SSD PCIe Gen 5.0	15.36 TB	4100 and 4200	SE	EPK9AB5Q	MZWLO15THBLA-00A07/00B07
Samsung PM9A3 PCIe Gen 4.0	.96 TB	4100	TCG Enterprise	GDC5A02Q	MZQL2960HCJR-00A07
Samsung PM9A3 PCIe Gen 4.0	1.92 TB	4100	TCG Enterprise	GDC5A02Q	MZQL21T9HCJR-00A07
Samsung PM9A3 PCIe Gen 4.0	3.84 TB	4100	TCG Enterprise	GDC5A02Q	MZQL23T8HCLS-00A07
Samsung PM9A3 PCIe Gen 4.0	7.68 TB	4100	TCG Enterprise	GDC5A02Q	MZQL27T6HBLA-00W07
SanDisk Ultrastar DC SN655 SSD w/ Carrier	3.84 TB	4100 and 4200	SE	RC611003	OTS2458
SanDisk Ultrastar DC SN655 SSD w/ Carrier	3.84 TB	4100 and 4200	ISE	RC611003	OTS2461
SanDisk Ultrastar DC SN655 SSD w/ Carrier	3.84 TB	4100 and 4200	TCG Ruby	RC611003	OTS2467
SanDisk Ultrastar DC SN655 SSD w/ Carrier	7.68 TB	4100 and 4200	SE	RC611003	OTS2459

1. One terabyte (TB) is equal to one trillion bytes. Actual user capacity may be less due to operating environment.

Device	Volume[1]	Series Compatibility	Encryption	Drive Firmware	Manufacturer Part Number
SanDisk Ultrastar DC SN655 SSD w/ Carrier	7.68 TB	4100 and 4200	ISE	RC611003	OTS2462
SanDisk Ultrastar DC SN655 SSD w/ Carrier	7.68 TB	4100 and 4200	TCG Ruby	RC611003	OTS2468
SanDisk Ultrastar DC SN655 SSD w/ Carrier	15.36 TB	4100 and 4200	SE	RC611003	OTS2460
SanDisk Ultrastar DC SN655 SSD w/ Carrier	15.36 TB	4100 and 4200	ISE	RC611003	OTS2463
SanDisk Ultrastar DC SN655 SSD w/ Carrier	15.36 TB	4100 and 4200	TCG Ruby	RC611003	OTS2469
SanDisk Ultrastar DC SN655 SSD w/ Carrier	30.72 TB	4100 and 4200	SE	RC911000	OTS2507
SanDisk Ultrastar DC SN655 SSD w/ Carrier	30.72 TB	4100 and 4200	ISE	RC911000	OTS2509
SanDisk Ultrastar DC SN655 SSD w/ Carrier	30.72 TB	4100 and 4200	TCG Ruby	RC911000	OTS2511
SanDisk Ultrastar DC SN655 SSD w/ Carrier	61.44 TB	4100 and 4200	SE	RC911000	OTS2508
SanDisk Ultrastar DC SN655 SSD w/ Carrier	61.44 TB	4100 and 4200	ISE	RC911000	OTS2510
SanDisk Ultrastar DC SN655 SSD w/ Carrier	61.44 TB	4100 and 4200	TCG Ruby	RC911000	OTS2512
SanDisk DC SN861 PCIe Gen 5.0	1.6 TB	4100	SE	RH110013	OTS2656
SanDisk DC SN861 PCIe Gen 5.0	1.6 TB	4100	ISE	RH110013	OTS2650
SanDisk DC SN861 PCIe Gen 5.0	1.6 TB	4100	TCG Opal	RH110013	OTS2653
SanDisk DC SN861 PCIe Gen 5.0	1.92 TB	4100	SE	RH110013	OTS2635
SanDisk DC SN861 PCIe Gen 5.0	1.92 TB	4100	ISE	RH110013	OTS2644
SanDisk DC SN861 PCIe Gen 5.0	1.92 TB	4100	TCG Opal	RH110013	OTS2647
SanDisk DC SN861 PCIe Gen 5.0	3.2 TB	4100	SE	RH110013	OTS2657
SanDisk DC SN861 PCIe Gen 5.0	3.2 TB	4100	ISE	RH110013	OTS2651
SanDisk DC SN861 PCIe Gen 5.0	3.2 TB	4100	TCG Opal	RH110013	OTS2654

1. One terabyte (TB) is equal to one trillion bytes. Actual user capacity may be less due to operating environment.

Device	Volume[1]	Series Compatibility	Encryption	Drive Firmware	Manufacturer Part Number
SanDisk DC SN861 PCIe Gen 5.0	3.84 TB	4100	SE	RH110013	OTS2636
SanDisk DC SN861 PCIe Gen 5.0	3.84 TB	4100	ISE	RH110013	OTS2645
SanDisk DC SN861 PCIe Gen 5.0	3.84 TB	4100	TCG Opal	RH110013	OTS2648
SanDisk DC SN861 PCIe Gen 5.0	6.4 TB	4100	SE	RH110013	OTS2658
SanDisk DC SN861 PCIe Gen 5.0	6.4 TB	4100	ISE	RH110013	OTS2652
SanDisk DC SN861 PCIe Gen 5.0	6.4 TB	4100	TCG Opal	RH110013	OTS2655
SanDisk DC SN861 PCIe Gen 5.0	7.68 TB	4100	SE	RH110013	OTS2637
SanDisk DC SN861 PCIe Gen 5.0	7.68 TB	4100	ISE	RH110013	OTS2646
SanDisk DC SN861 PCIe Gen 5.0	7.68 TB	4100	TCG Opal	RH110013	OTS2649
SanDisk DC SN861 PCIe Gen 5.0	12.8 TB	4100	SE	RH110013	OTS2612
SanDisk DC SN861 PCIe Gen 5.0	12.8 TB	4100	ISE	RH110013	OTS2613
SanDisk DC SN861 PCIe Gen 5.0	12.8 TB	4100	TCG Opal	RH110013	OTS2614
SanDisk DC SN861 PCIe Gen 5.0	15.36 TB	4100	SE	RH110013	OTS2608
SanDisk DC SN861 PCIe Gen 5.0	15.36 TB	4100	ISE	RH110013	OTS2609
SanDisk DC SN861 PCIe Gen 5.0	15.36 TB	4100	TCG Opal	RH110013	OTS2610

Note: OpenFlex Data24 supports device features that are within NVMe® specification as mandatory.

1. One terabyte (TB) is equal to one trillion bytes. Actual user capacity may be less due to operating environment.

1.4 Supported Cables

Table 5: Qualified Direct Attached Cables

Vendor	Active/ Passive	Vendor Model Number
Mellanox QSFP28 to QSFP28 Cable, 1m 30AWG	Passive	MCP1600-C001E30N
Mellanox QSFP28 to QSFP28 Cable, 2m 30AWG	Passive	MCP1600-C002E30N
Mellanox QSFP28 to QSFP28 Cable, 3m 30AWG	Passive	MCP1600-C003E30L
Mellanox QSFP28 to QSFP28 Cable, 5m 26AWG	Passive	MCP1600-C005E26L
Mellanox QSFP28 to QSFP28 Cable, 5m 26AWG	Active	MFA1A00-C005
Amphenol 100G/200G, QSFP28Gb 30AWG, 1m	Passive	NDAAFF-0001
Amphenol 100G/200G, QSFP28Gb 30AWG, 2m	Passive	NDAAFF-0002
Amphenol 100G/200G, QSFP28Gb 30AWG, 3m	Passive	NDAAFF-0003
Molex zQSFP+ to zQSFP+ Cable Assembly, 30AWG, 1.5m	Active	100297-1151
Molex zQSFP+ to zQSFP+ Cable Assembly, 30AWG, 2m	Active	100297-1201
FS 100G QSFP28 Cable Assembly, 30AWG, 10m	Active	Q28-AO10
FS 100G QSFP28 Cable Assembly, 30AWG, 15m	Active	Q28-AO15
FS 100G QSFP28 Cable Assembly, 30AWG, 20m	Active	Q28-AO20

1.5 Supported Operating Systems

The following table lists the operating systems tested on the OpenFlex Data24 4000 Series .

Table 6: Supported Operating Systems

Operating System	Supported Network Type	Kernel
Debian 12.5	RoCE and TCP	6.1.0-44-amd64
RHEL 9.2	RoCE	5.14.0-284.11.1.el9_2.x86_64
RHEL 9.4	RoCE and TCP	5.14.0-427.13.1.el9_4.x86_64
Rocky Linux 9.6	RoCE and TCP	5.14.0-570.58.1.el9_6.x86_64
Ubuntu 22.04	RoCE	5.15.0-163-generic
Ubuntu 24.04	TCP	6.8.0-88-generic

1.6 Supported SKUs

The following tables list the versions of this Western Digital product that are supported by this document.

Table 7: Supported High Availability SKUs

Component	Capacity	SKU
OpenFlex Data24-0 4241 nTAA	0TB	1ES2365
OpenFlex Data24-12 4243 nTAA RI-1DW/D SE	46.08TB	1ES2415
OpenFlex Data24-12 4243 nTAA RI-1DW/D ISE	46.08TB	1ES2417
OpenFlex Data24-12 4243 nTAA RI-1DW/D TCG	46.08TB	1ES2420
OpenFlex Data24-12 4243 nTAA RI-1DW/D SE	92.16TB	1ES2416
OpenFlex Data24-24 4243 nTAA RI-1DW/D SE	92.16TB	1ES2380
OpenFlex Data24-12 4243 nTAA RI-1DW/D ISE	92.16TB	1ES2418
OpenFlex Data24-24 4243 nTAA RI-1DW/D ISE	92.16TB	1ES2387
OpenFlex Data24-12 4243 nTAA RI-1DW/D TCG	92.16TB	1ES2421
OpenFlex Data24-24 4243 nTAA RI-1DW/D TCG	92.16TB	1ES2412
OpenFlex Data24-24 4243 nTAA RI-3DW/D ISE	153.6TB	1ES2715
OpenFlex Data24-12 4243 nTAA RI-1DW/D SE	184.32TB	1ES2383
OpenFlex Data24-24 4243 nTAA RI-1DW/D SE	184.32TB	1ES2381
OpenFlex Data24-12 4243 nTAA RI-1DW/D ISE	184.32TB	1ES2419
OpenFlex Data24-24 4243 nTAA RI-1DW/D ISE	184.32TB	1ES2388
OpenFlex Data24-12 4243 nTAA RI-1DW/D TCG	184.32TB	1ES2422
OpenFlex Data24-24 4243 nTAA RI-1DW/D TCG	184.32TB	1ES2413
OpenFlex Data24-24 4243 nTAA RI-1DW/D SE	368.64TB	1ES2382
OpenFlex Data24-24 4243 nTAA RI-1DW/D ISE	368.64TB	1ES2389
OpenFlex Data24-24 4243 nTAA RI-1DW/D TCG	368.64TB	1ES2414
OpenFlex Data24-24 4243 nTAA RI-1DW/D SE	737.28TB	1ES2704
OpenFlex Data24-24 4243 nTAA RI-1DW/D ISE	737.28TB	1ES2705
OpenFlex Data24-24 4243 nTAA RI-1DW/D TCG	737.28TB	1ES2706
OpenFlex Data24-24 4243 nTAA RI-1DW/D SE	1474.56TB	1ES2707
OpenFlex Data24-24 4243 nTAA RI-1DW/D ISE	1474.56TB	1ES2708
OpenFlex Data24-24 4243 nTAA RI-1DW/D TCG	1474.56TB	1ES2709

Table 8: Supported Non-High Availability SKUs

Component	Capacity	SKU
OpenFlex Data24-0 4141 nTAA	0TB	1ES2364