SM4 series (RM2)

Enterprise-grade SATA SSD

Specifications (Customized)

Capacity
- Pro Edition
  - 2.5-inch: 240 ~ 7680 GB

Components
- Controller: Marvell 88SS1074 / 88SS1080
- Flash: 3D TLC
- DRAM: DDR3 / DDR4

Compliance
- SATA 3.2 compatible with 6/3/1.5 Gb/s rates
- ATA/ATAPI ACS3 command set compliant
- NCQ: Up to 32 Queue Depth
- Enhance SMART ATA feature set
- Data set management TRIM command
- OS aware host hot plug / removal

Performance (up to)[1]
- Sequential read: 550 MB/s
- Sequential write: 520 MB/s
- Random 4K read: 95,000 IOPS
- Random 4K write: 24,000 IOPS

Power management
- DIPM / HIPM
- Auto idle
- SATA link power management
- Temperature monitoring and proprietary thermal management algorithm

Security
- AES-256 encryption
- Support SED (TCG Opal 2.01/AES-256)
- Security Erase
- Cryptographic firmware image signing

Physical insertion cycles
- 5000 Cycles

Reliability
- Advanced LDPC error correction
- Global static and dynamic wear leveling
- UBER: <1 sector per 10^{17} bits read
- MTBF: 2.0 million hours

Endurance[2] (JESD219 Enterprise / Client) @ 5 years
- Streaming(Standard) Edition: 0.6 DWPD / 1.5 DWPD
- Pro Edition: 1 DWPD / 2.5 DWPD
- Max Edition: 25 DWPD / 40 DWPD

Data retention
- JESD218A-compliant

Compatibility
- Windows 11/10/8.1/7
- Windows Server 2016/2012 R2/2012
- CentOS, Fedora, FreeBSD, openSUSE, Red Hat, Ubuntu, VMware ESXi, Citrix, KVM

Mechanical form factor
- 2.5-inch: 100.5 mm x 69.85 mm x 7 mm

Power consumption (TYP)
- Idle: <0.8 W
- Active: <2.9 W

Environment
- Operating temperature: 0–70 °C
- Storage temperature: -40–85 °C

Shock & vibration
- Operating: 50 G
  (11 ms duration, half sine wave)
- Non-operating: 1500 G
  (0.5 ms duration, half sine wave)
- Vibration: 10 G
  (peak,10–2000 Hz)

Technology
- HW power loss protection (<4TB)
- Conformal Coating (upon request)
- Underfill (upon request)
- GND Isolation (upon request)

Warranty
- 5-year limited warranty[3]

Products and specifications are subject to change by Exascend without notice.
Customized solutions available upon request. Contact us at https://exascend.com/inquiry/.

Specification notes:

1. Performance claims
    a. Actual performance may vary based on the hardware, software, and overall system configuration.
    b. Sequential performance is measured with 128 KB transfer size, QD 32 and 4 KB alignment with Iometer.
    c. Random performance is sustained performance measured with 4K transfer size, QD 32 and 4 KB alignment with Iometer.
    d. Performance test platform: CPU: Intel Core i9-13900K; motherboard: ASUS Prime Z790-P; OS: Windows 11 Pro x64 21H2.
2. Endurance claims
    a. DWPD stands for Drive Writes Per Day. TBW = DWPD * capacity * warranty * 365 / 1024.
    b. Access patterns used for random workload during endurance testing is compliant with the JESD219 standard.
3. Limited warranty details: please refer to limited warranty policy and warranty terms.

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1. Order information

The following table lists the standard part number for Exascend SM4 series SSD, for design service inquiries on operating temperature, capacity, over-provisioning, endurance, performance, and power, please contact Exascend sales support, or email us at: sales@exascend.us.

Standard Product and SKU list

P/N	Form Factor	Edition	Capacity	Flash Type	Remark
EXSM4A0240GBRM2-0P0G	2.5"(7mm)	Pro	240 GB	3D TLC	
EXSM4A0480GBRM2-0P0G	2.5"(7mm)	Pro	480 GB	3D TLC	
EXSM4A0960GBRM2-0P0G	2.5"(7mm)	Pro	960 GB	3D TLC	
EXSM4A1920GBRM2-0P0G	2.5"(7mm)	Pro	1,920 GB	3D TLC	
EXSM4A3840GBRM2-0P0G	2.5"(7mm)	Pro	3,840 GB	3D TLC	
EXSM4A7680GBRM2-0P0G	2.5"(7mm)	Pro	7,680 GB	3D TLC	

2. Part number decoder

[P/N Decoder For Standard Product and SKU]

1	2	3	4	5	6	7
EX	**SM4**	**A**	**7680GB**	**RM2**	**-**	**(Blank)**

String	Code	Definition	Description
1	Code 1~2	Prefix	Exascend
2	Code 3~5	Product Line	SI3 / SE4 / SI4 / SV4 / SA4 / SR4 / SM4 PI3 / PE4 / PI4 / PA4 / PD5 / PB2
3	Code 6	Form Factor	A = 2.5” B = mSATA E = E1.S G = BGA SSD M = M.2 2280 P = M.2 2260 Q = M.2 2242 R = M.2 2230 U = U.2
4	Code 7~12	Capacity	Capacity & Unit
5	Code 13~15	Sub-Series	(Blank) = Default RM* = Internal Code
6	Code 16	Hyphen	-
7	Code 17~	Product Edition	(Blank) = Streaming Edition (Standard) 0P = Pro Edition (High DWPD) 0X = Max Edition (pSLC)

[P/N Decoder For Customization Product and SKU]

Exascend offers professional services for customization for additional feature options and fixed BOM services. Please contact your sales representative for details. For the customization and fixed BOM decoder, Please contact your sales representative.

1	2	3	4	5	6	7	8	9
EX	**SM4**	**A**	**7680GB**	**RM2**	**-**	****** **(The character length depends on the additional feature by request.)**	**-**	********** **(Customer identification by request)**

3. Product overview

Exascend provides customizable hardware and firmware design service of cutting-edge SSD products for advanced storage systems. Our products are designed specifically for high reliability server, enterprise data center, and cloud computing applications. Combining world class design R&D, and engineering support capabilities, Exascend strives to provide customers with the best-in-class product and service, enabling enhanced boot times, faster application loading, reduced power consumption and extended reliability. To explore more about our extended engineering support services, i.e., tailored capacity, over-provisioning, operating temperature range, endurance, performance, power, and longevity, please contact Exascend sales representative, or email us at: sales@exascend.us

SM4 Streaming series:
Designed for read-intensive enterprise-class workloads, supporting up to 0.6 DWPD under JESD219 enterprise workloads – or 1.5 DWPD under JESD219 client workloads – for 5 years.

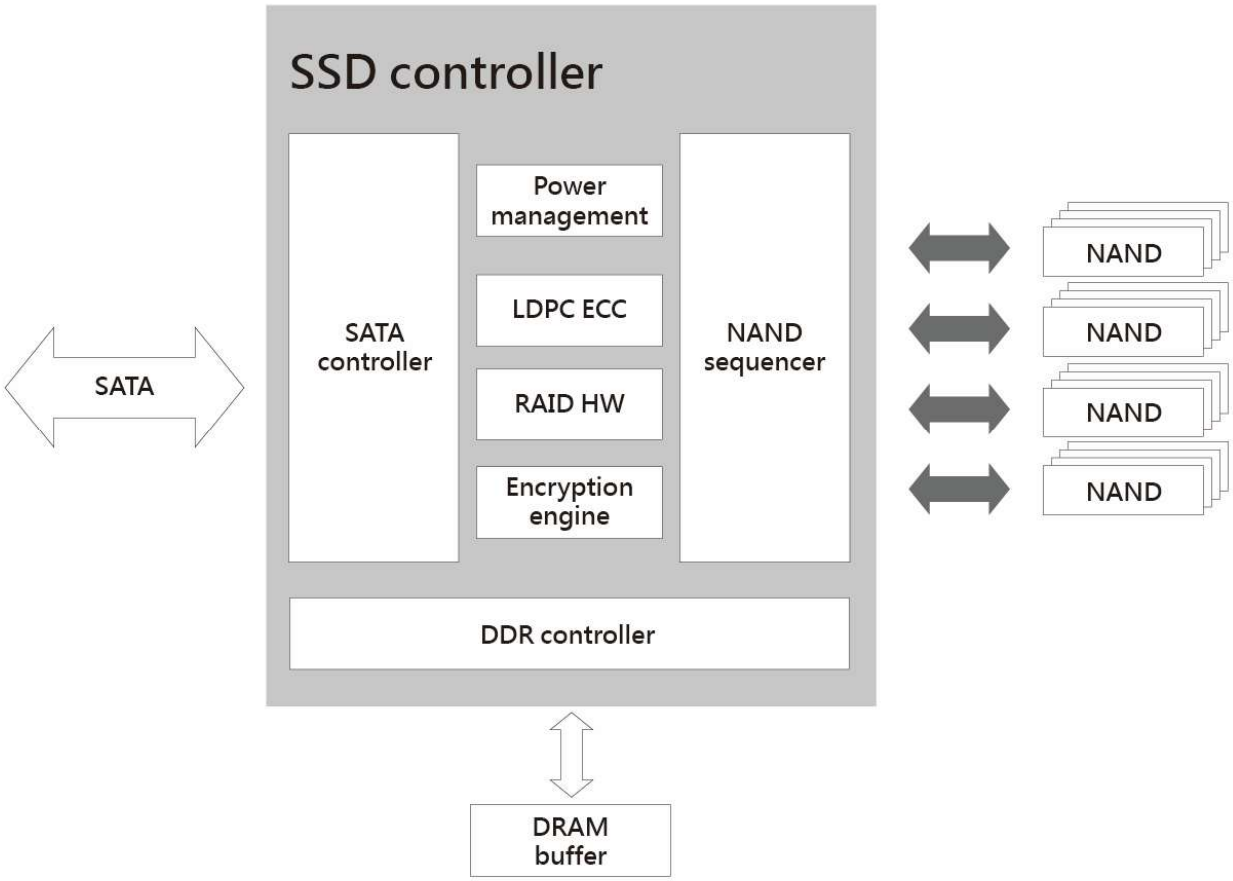
SM4 Pro series:
Optimized for mixed read and write-intensive enterprise-class workloads, supporting up to 1 DWPD under JESD219 enterprise workloads – or 2.5 DWPD under JESD219 client workloads – for 5 years.

SM4 Max series:
Ideal for extreme, intensive workloads, supporting up to 25 DWPD under JESD219 enterprise workloads – or up to 40 DWPD under JESD219 client workloads – for 5 years.

SM4 series product highlights:

- High I/O performance and throughput bandwidth
- Consistent I/O latency and QoS for enterprise workloads
- Advanced flash management and global wear leveling algorithm that extend drive life
- End-to=End Data path protection
- Full disk encryption (FDE) as self-encrypting drive (SED) with TCG Opal 2.01 (optional)
- RAID ECC for exceptional reliability and stability
- Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T.)
- Proprietary thermal management ensuring consistent performance
- Hardware and firmware-based power loss protection reducing risk of data corruption and device failure
- *Optional firmware feature customization and tuning services*

Figure 1: SSD functional logic diagram



4. Detailed specifications

The Exascend SM4 series provides extreme performance and ultra-high reliability. Available in a wide variety of form factors, configurations and storage capacities, the SM4 series is ideal for enterprise applications that demand storage devices that can handle extreme workloads and offer steadfast reliability.

4.1 Capacity

Table : SM4 logical block address configuration

Capacity	UNFORMATTED CAPACITY (TOTAL USER ADDRESSABLE SECTORS IN LBA MODE)
240 GB	468,862,128
480 GB	937,703,088
960 GB	1,875,385,008
1,920 GB	3,750,748,848
3,840 GB	7,501,476,528
7,680 GB	15,002,931,888

Notes:
- The LBA count shown represents total user-accessible storage capacity and will remain the same throughout the drive's lifetime.
- The total usable capacity of the SSD may be less than the total physical capacity because a small portion of the capacity is used for NAND flash management and maintenance purposes.

4.2 Performance

Table : Drive performance – SM4 series

Pro Edition	2.5"(7mm)							
Parameter	UNIT	240 GB	480 GB	960 GB	1,920 GB	3,840 GB	7,680 GB	
Sequential (Sustained) Read (128KB)	MB/s	435 MB/s	435 MB/s	435 MB/s	545 MB/s	545 MB/s	550 MB/s	
Sequential (Sustained) write (128KB)	MB/s	290 MB/s	415 MB/s	415 MB/s	520 MB/s	520 MB/s	520 MB/s	
Random read (4KB)	IOPS	40,000 IOPS	64,000 IOPS	74,000 IOPS	93,000 IOPS	95,000 IOPS	76,000 IOPS	
Random write (4KB)	IOPS	7,000 IOPS	10,000 IOPS	14,000 IOPS	24,000 IOPS	24,000 IOPS	11,000 IOPS	
Latency (Read)(QoS 99% @ QD=1)	µs	130 µs	135 µs	135 µs	160 µs	165 µs	195 µs	
Latency (Write)(QoS 99% @ QD=1)	µs	705 µs	820 µs	755 µs	445 µs	525 µs	840 µs	
Latency (Read)(QoS 99.9% @ QD=1)	µs	190 µs	415 µs	545 µs	400 µs	425 µs	525 µs	
Latency (Write)(QoS 99.9% @ QD=1)	µs	8,975 µs	6,455 µs	3,260 µs	750 µs	855 µs	1,975 µs	
Latency (Read)(QoS 99.99% @ QD=1)	µs	2,245 µs	2,440 µs	2,865 µs	1,530 µs	1,090 µs	1,035 µs	
Latency (Write)(QoS 99.99% @ QD=1)	µs	10,420 µs	7,700 µs	4,570 µs	1,055 µs	1,235 µs	2,540 µs	
Remark								
Endurance (JESD219 enterprise)	DWPD	1 @ 5Yrs						
Endurance (JESD219 client)	DWPD	2 @ 5Yrs						

Notes:
- Measured with device connected as secondary drive.
- Actual performance may vary based on the hardware, software, and overall system configuration.
- Sequential performance is measured with 128 KB transfer size, QD 32 and 4 KB alignment with Iometer.
- Random performance is sustained performance measured with 4K transfer size, QD 32 and 4 KB alignment with Iometer.
- Performance test platform: CPU: Intel Core i9-13900K; motherboard: ASUS Prime Z790-P; OS: Windows 11 Pro x64 21H2

4.3 Environment specification

Table : Environmental specification table

Parameter	Value
Operating temperature	0–70 °C
Storage temperature	-40–85 °C
Power supply voltage range	2.5"(7mm) : 5.0 V ± 10%
Humidity (non-condensing)	5–95% (Operating)
Vibration	10 G (peak, 10–2000 Hz)
Shock (operating)	50 G (11 ms duration, half sine wave)
Shock (non-operating)	1500 G (0.5 ms duration, half sine wave)

4.4 Power consumption

Table : SM4 series power consumption table

Pro Edition	2.5"(7mm)								
Parameter	Status	UNIT	240 GB	480 GB	960 GB	1,920 GB	3,840 GB	7,680 GB	
Idle Mode	Avg.	Watt	< 0.5 W	< 0.5 W	< 0.6 W	< 0.7 W	< 0.6 W	< 0.8 W	
Active Mode	Avg.	Watt	< 1.9 W	< 2.2 W	< 2.3 W	< 2.3 W	< 2.4 W	< 2.3 W	
	Max.	Watt	< 2.5 W	< 2.8 W	< 2.5 W	< 2.9 W	< 2.8 W	< 2.9 W	
Remark									

4.5 Reliability

Products in the Exascend SM4 series meet or exceed SSD endurance and data retention requirements as specified in the JESD218 standard. Reliability specifications are listed in the following table.

Reliability	
Mean Time Between Failures (MTBF)*	2,000,000 hours
Uncorrectable Bit Error Rate (UBER)**	<1 sector per 10^{17}

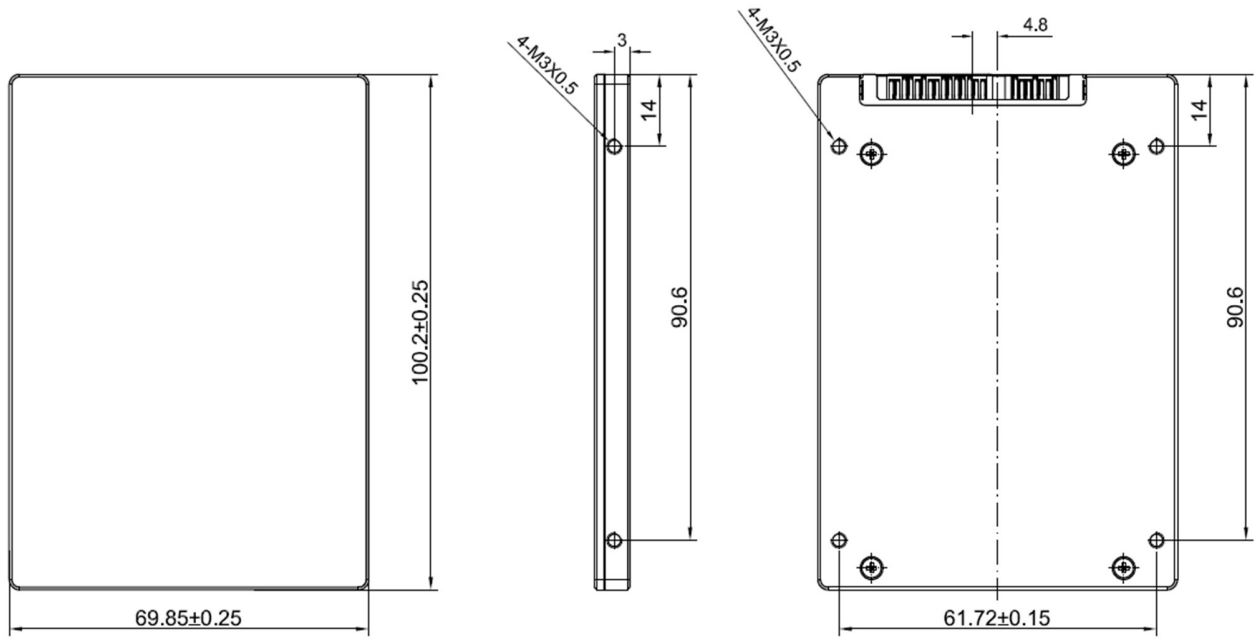
Table : Reliability table

Endurance Rating (TBW) (TBW stands for total bytes written whose access pattern is compliant with JESD218 standard)			
5Yrs @ JESD219 Workload	Capacity	Enterprise	Client
Pro Edition	**240 GB**	430 TB	860 TB
	480 GB	860 TB	1,720 TB
	960 GB	1,720 TB	3,440 TB
	1,920 GB	3,440 TB	6,880 TB
	3,840 GB	6,880 TB	13,760 TB
	7,680 GB	13,760 TB	27,520 TB

5. Physical dimension diagram

5.1 SATA 2.5 Inch board

Figure 2: 2.5 Inch physical dimension diagram



GENERAL TOLERANCE IS ±0.15mm
DIMENSION UNIT: mm

Table : Physical dimensions for SATA 2.5 Inch

PHYSICAL DIMENSIONS	VALUE	UNIT
Length	100	mm
Width	69.85	mm
Thickness	7	mm

6. Pin Assignment

6.1 SATA 2.5 Inch connector

Table : 2.5 inch connector signal name, power pin assignment, and description
(The naming and description of the PINs are based on the SSD module side.)

PIN NAME	SIGNAL NAME	DESCRIPTION
S1	GND	Ground
S2	R+	+ Differential Receive Signal
S3	R-	- Differential Receive Signal
S4	GND	Ground
S5	T-	- Differential Transmit Signal
S6	T+	+ Differential Transmit Signal
S7	GND	Ground
P1	NC	NO Connect
P2	NC	NO Connect
P3	NC	NO Connect
P4	GND	Ground
P5	GND	Ground
P6	GND	Ground
P7	5V	5V Power,Pre-charge
P8	5V	5V Power
P9	5V	5V Power
P10	GND	Ground
P11	DAS	Device Activity Signal
P12	GND	Ground
P13	12V	12V Power（Not Used）
P14	12V	12V Power（Not Used）
P15	12V	12V Power（Not Used）

7. Compliance

Exascend SM4 series SSD complies with the following specifications:

- FCC
- CE
- RoHS
- UKCA

8. Supported ATA commands

Exascend SM4 series SSDs support the ATA commands that are shown in the following table. For details about the ATA commands, please refer to the ATA/ATAPI ACS3 command set specifications.

Table : Supported ATA Command Set

COMMAND NAME	CODE (HEX)	COMMAND NAME	CODE (HEX)
NOP	00h	Read Multiple	C4h
Data Set Management	06h	Write Multiple	C5h
Read Sectors	20h	Set Multiple Mode	C6h
Read Sectors EXT	24h	Read DMA	C8h
Read DMA EXT	25h	Write DMA	CAh
Read Native Max Address EXT	27h	Write Multiple FUA EXT	CEh
Read Multiple EXT	29h	Standby Immediate	E0h
Read Log EXT	2Fh	IDLE Immediate	E1h
Write Sectors	30h	Standby	E2h
Write Sectors EXT	34h	IDLE	E3h
Write DMA EXT	35h	Read Buffer	E4h
Set Max Address EXT	37h	Check Power Mode	E5h
Write Multiple EXT	39h	Sleep	E6h
Write DMA FUA EXT	3Dh	Flush Cache	E7h
Write Log EXT	3Fh	Write Buffer	E8h
Read Verify Sectors	40h	Read Buffer DMA	E9h
Read Verify Sectors EXT	42h	Flush Cache EXT	EAh
Write Uncorrectable EXT	45h	Write Buffer DMA	EBh
Read Log DMA EXT	47h	Identify Device	ECh
Write Log DMA EXT	57h	Set Features	EFh
Read FPDMA Queued	60h	Security Set Password	0xF1
Write FPDMA Queued	61h	Security Unlock	0xF2
Set Date & Time EXT	77h	Security Erase Prepare	0xF3
Accessible Max Address	78h	Security Erase Unit	0xF4
Execute Device Diagnostic	90h	Security Freeze Lock	0xF5
Download Micro Code	92h	Security Disable Password	0xF6
Download Micro Code DMA	93h	Read Native Max Address	0xF8
SMART	B0h	Set Max Address	0xF9
Sanitize Device	B4h		

9. S.M.A.R.T. support

9.1 Overview of S.M.A.R.T. support

Data storage drives capture a variety of information during operation that may be used to analyze drive "health." Drive manufacturers have adopted S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) to help warn system software, a system administrator, or a user of impending drive failure, when time still remains to take preventive action. The S.M.A.R.T. standard defines the protocols for reporting errors and for invoking self-tests to collect and analyze data on demand. The specification is flexible and provides for individual manufacturers to define their own unique vendor-specific information. This section describes the baseline S.M.A.R.T. commands and attributes supported by products in the Exascend SM4 series. Further, it is recommended to consult the list of public S.M.A.R.T. attributes.

9.2 S.M.A.R.T. health information

Table : S.M.A.R.T. health information

ID (Dec)	ID(Hex)	Attribute Name	Description
1	01h	Raw Read Error Rate	Total event count for all correctable and un-correctable ecc, it would be cleared to 0 when exceeding FFFFFFFFFFFFh
5	05h	Retired Block Count	Retired block count after leaving factory
9	09h	Power-On Hours	Power on time, culmulative over the life of the device, integer number in hour time units
12	0Ch	Device Power Cycle Count	Culmulative number of power cycle events over the life of the device
165	A5h	Maximum Erase Count	Maximum erase count of all the blocks in the device
166	A6h	Minimum Erase Count	Minimum erase count of all the blocks in the device
167	A7h	Average Erase Count	Average erase count of all the blocks in the device
169	A9h	Remain life/Media Wearout Indicator	Indicate the worn-out status of the device
170	AAh	Available Reserved Space	Percentage of reserved blocks remaining in op
171	ABh	Program Fail Count	Total count of program fails
172	ACh	Erase Fail Count	Total count of erase fails
174	AEh	Unexpected Power Loss	Total count of unexpected power loss events
183	B7h	Total Sata Link Down Grade Link Count	Total count of the number of times SATA interface selected lower signaling rate due to error Byte0~1: count of failing SATA connection Byte2~3: count of SATA1 Byte4~5: count of SATA2
194	C2h	Temperature	Byte0~1: current temperature Byte2~3: minimum temperature Byte4~5:maximum temperature
198	C6h	ECC On-the-Fly Error Count	Count of un-correcable ecc (UECCC). It is cleared at power-on reset.
199	C7h	Current Sata Interface Crc Count	Count of SATA interface CRC during this power on, it would be cleard to zero during power off
241	F1h	Lifetime Writes from Host System	Data written by host (GB=1024*1024*1024 Byte)
242	F2h	Lifetime Reads to Host System	Data read to host (GB=1024*1024*1024 Byte)
249	F9h	Total Nand Writes	Total data written to NAND (GB=1024*1024*1024 Byte)
250	FAh	Current Sata Link Down Grade Link Count	Count of the number of times SATA interface selected lower signaling rate due to error during this power on, it would be cleared to 0 during power off Byte0~1: count of failing SATA connection Byte2~3: count of SATA1 Byte4~5: count of SATA2
251	FBh	Total Sata Interface Crc Count	Life-time SATA interface CRC count

9.3 S.M.A.R.T. Sub command

The SMART feature set command has several separate sub-commands which are selective by host to write it to the devices' features registers before issuing the S.M.A.R.T. The sub-commands are listed below.

Table : S.M.A.R.T. sub command

Command	Sub-Code
SMART Read Data	D0
SMART Read Attribute Thresholds	D1
SMART Enable/Disable Attribute AutoSave	D2
SMART Execute Off-Line Immediate	D4
SMART Read Log	D5
SMART Write Log	D6
SMART Enable Operations	D8
SMART Disable Operations	D9
SMART Return Status	DA

Legal information

Limited Warranty Policy

Exascend, Inc. ("Exascend") warrants that Exascend's product, in its original sealed packaging, will be free from defects in materials and workmanship. Subject to the conditions and limitations set forth below, Exascend will either repair or replace any part of its products that prove defective by reason of improper workmanship or materials. This warranty is non-transferable and valid only for the original purchaser of the Exascend products, except where prohibited by law. The original sales receipt or invoice, or a copy thereof, is required to establish the purchase date and original purchaser.

1. This warranty supersedes all other warranties and representations, whether oral or written, between you and Exascend. Exascend makes no other warranties, including any warranty of merchantability or fitness for a particular purpose, whether expressly or implied.

2. All warranties, whether express or implied, are limited to the periods of time set forth below. Some states and jurisdictions do not allow such exclusion of implied warranties, limitations or warranty period, so above restrictions may not apply to you.

3. Exascend may acknowledge or read and save the data and information (collectively, "Information") stored in the product during after-services. Exascend hereby agrees that Exascend will not disclose any Information to any third parties, except Exascend's employees, who may need to access the Information, with or without your prior written consent.

Warranty Terms

We offer five (5) years limited warranty for our enterprise products.

The warranty period is the SHORTER OF:

- a period of five (5) years beginning from the date of purchase; or
- the period ending when the drive reached advertised DWPD or TBW rating; or
- the period ending when the device's Lifespan indicator has reached 0% or below.

This Limited Warranty will not apply to, and Exascend will have no liability or obligation with respect to, problems or damage resulting from any of the following: (i) accident, modification, neglect, abuse, careless or incorrect handling, misuse or improper operation, disassembly, misapplication or use in unusual physical environments or under operating conditions not approved by Exascend (including, but not limited to, use of the Product with an improper voltage supply); (ii) normal wear and tear; (iii) removal of label(s) or sticker(s) provided on or with the Product (including all warranty or quality-control stickers, product serial or electronic numbers); (iv) problems relating to or residing in non-Exascend hardware, software or other items with which the Product is used; (v) use in an environment, in a manner or for a purpose for which the Product was not designed or not in accordance with Exascend's published documentation; (vi) installation, modification, alteration or repair by anyone other than Exascend or its authorized representatives; (vii) problems that do not relate to materials or workmanship or that have an insignificant impairment on the use or operation of the Product; or (viii) problems related to consumables; (ix) Product purchased "AS-IS" or "with known faults, defects or problems." Additionally, Exascend will have no liability or obligation to recover any data in the Product.

Disclaimer of liability

Exascend, Inc. reserves the right to make changes to specifications and product descriptions such as but not limited to numbers, parameters and other technical information contained herein without notice. Please contact Exascend, Inc. to obtain the latest specifications. Exascend, Inc. grants no warranty with respect to this datasheet, explicit or implied, and is not liable for direct or indirect damages. Some states do not grant the exclusion of incidental damages and as such this statement may not be valid in such states. The provisions of the datasheet do not convey to the purchaser of the device any license under any patent right or other intellectual property right of Exascend, Inc.

Customers must not use Exascend products in applications where a device failure or malfunction may cause personal injury or death, e.g., in life support systems or devices.

Exascend shall not be liable for any loss, injury or damage caused by use of the products in any of the following applications:

- Medical-related devices, life support, medical measurement devices, etc.
- Control devices for trains, ships, mass transportation systems or automotive vehicles, etc.
- Specific applications including military/defense-related equipment, aerospace, nuclear facility control systems, etc.
- Safety systems for disaster prevention/crime prevention, etc.

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Revision History

REVISION	DESCRIPTION	DATE
MRM2.Rev1.0.Preliminary	First released	2026/04/17
MRM2.Rev1.1.Preliminary	Revise P/N	2026/06/03