Micron 7450 SSD Series Technical Product Specification

For additional technical and warranty information, contact your Micron sales representative.

Features

- Micron® 3D TLC NAND Flash
- PCI Express Gen4
- M.2 single port (x4)
- U.3 single port (x4)
- EDSFF E1.S single port (x4)
- NVM Express 1.4b
 - Number of name spaces supported: 132
 - Weighted round robin with urgent arbitration supported
- TCG Storage Security Subsystem Class: Opal Rev 2.01
- Capacity (unformatted)
 - 7450 PRO M.2 2280: 480GB, 960GB
 - 7450 PRO M.2 22110: 960GB, 1920GB, 3840GB
 - 7450 PRO U.3: 960GB, 1920GB, 3840GB, 7680GB, 15,360GB
 - 7450 PRO E1.S: 960GB, 1920GB, 3840GB, 7680GB
 - 7450 MAX M.2 2280: 400GB, 800GB
 - 7450 MAX M.2 22110: 800GB, 1600GB, 3200GB
 - 7450 MAX U.3: 800GB, 1600GB, 3200GB, 6400GB, 12,800GB
 - 7450 MAX E1.S: 800GB, 1600GB, 3200GB, 6400GB
- Endurance: Total bytes written (TBW)
 - 7450 PRO: Up to 28,000TB at 1 DWPD
 - 7450 MAX: Up to 70,000TB at 3 DWPD
- Enterprise sector size support = 512 and 4096-byte sector size (configurable)
- Security: Digitally signed firmware
- Surprise insertion/surprise removal (SISR) and hotplug capable
- Self-monitoring, analysis, and reporting technology (SMART)
- Performance¹
 - Sequential 128KB READ: Up to 6800 MB/s
 - Sequential 128KB WRITE: Up to 5600 MB/s
 - Random 4KB READ: Up to 1,000,000 IOPS
 - Random 4KB WRITE: Up to 400,000 IOPS
- Latency^{2, 3}
 - READ (TYP): 80μs
 - WRITE (TYP): 15μs
- Reliability
 - MTTF: 2 million device hours⁴
 - Static and dynamic wear leveling

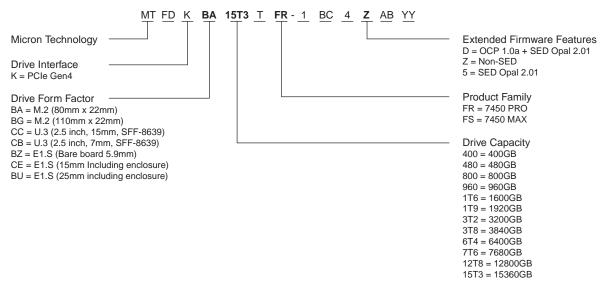
- Uncorrectable bit error rate (UBER): <1 sector per 10¹⁷ bits read
- End-to-end data protection
- Full power-loss protection
- Operating temperature⁵
 - Commercial (0°C to +70°C)
- Field upgradeable firmware
- Form factor
 - U.3: 100.45 x 70.10 x 7.00mm
 - U.3: 100.45 x 70.10 x 15.00mm
 - EDSFF E1.S: 31.5 x 111.49 x 5.9mm
 - EDSFF E1.S: 31.5 x 111.49 x 15mm
 - EDSFF E1.S: 31.5 x 111.49 x 25mm
 - M.2: 22.00 x 80.00mm
 - M.2: 22.00 x 110.00mm
- Electrical specification
 - U.3/E1.S power supply: 12V ±10%
 - U.3/E1.S AUX supply: 3.3V ±5%
 - M.2 power supply: $3.3V \pm 5\%$
- Notes: 1. Steady state as defined by SNIA Solid State
 Storage Performance Test Specification Enterprise
 - 4KB, queue depth 1 transfers used for READ/ WRITE latency values.
 - 3. TYP: Median, 50th percentile
 - 4. Product achieves MTTF based on population statistics not relevant to individual units.
 - 5. Temperature measured by SMART.
 - Not all MAX configurations available in all markets. Contact your Micron sales representative for more information.



Part Numbering Information

Micron 7450 SSDs are available in different configurations and capacities. The chart below is a comprehensive list of options; not all options listed can be combined to define an offered product. Visit www.micron.com for a list of valid part numbers.

Figure 1: Part Number Chart





Important Notes and Warnings

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Performance

Measured performance can vary for a number of reasons. The major factors affecting drive performance are the capacity of the drive and the interface of the host. Additionally, overall system performance can affect the measured drive performance. When comparing drives, it is recommended that all system variables are the same, and only the drive being tested varies.

Performance numbers will vary depending on the host system configuration.

Table 1: Drive Performance - PRO

| | | Capacity (GB) | | | | | | | | | | | | | |
|------------------------------------|---------------|---------------|------|------|------|-------|---------|------------------|--------|-------------------------------------|------|----------------------------|----------------------------|--|--|
| Param- eter Power | M.2 (2280) | | | | | U.3 (| (15mm/7 | mm) ¹ | | E1.S (25mm/15mm/5.9mm) ² | | | | | |
| State 0 | 480 | 960 | 1920 | 3840 | 960 | 1920 | 3840 | 7680 | 15,360 | 960 | 1920 | 3840 | 7680 | | |
| Sequential (128KB transfer) (MB/s) | | | | | | | | | | | | | | | |
| Read | 5000 | 5000 | 5000 | 5000 | 6800 | 6800 | 6800 | 6800 | 6800 | 6800 | 6800 | 6800 | 6800 | | |
| Write | 700 | 1400 | 2400 | 2500 | 1400 | 2700 | 5300 | 5600 | 5600 | 1400 | 2600 | 5000/ 4000 ³ | 5600/ 4000 ³ | | |
| Random (4 | KB transf | er) (IOPS) | | | | | | | | | | | | | |
| Read | 280K | 520K | 735K | 735K | 530K | 800K | 1M | 1M | 1M | 530K | 800K | 1M | 1M | | |
| Write | 40K | 82K | 120K | 160K | 85K | 120K | 180K | 215K | 250K | 85K | 120K | 180K | 215K | | |
| 70/30 random read/ write | 50K | 110K | 185K | 300K | 110K | 190K | 300K | 415K | 520K | 110K | 190K | 300K | 415K | | |
| Latency (µs | 5) | | | | | | | | | | | | | | |
| READ (TYP) | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | | |
| WRITE (TYP) | 30 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | | |
| READ (99%) | 95 | 95 | 90 | 90 | 95 | 90 | 90 | 90 | 90 | 95 | 90 | 90 | 90 | | |
| WRITE (99%) | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | |

Notes: 1. U.3 15mm performance measured at 25W, U.3 7mm measured at 15W

- 2. E1.S 25mm and E1.S 15mm performance measured at 25W, E1.S 5.9mm measured at 12W
- 3. Reduced performance at 12W.
- 4. Performance values measured under the following conditions:
 - Steady state as defined by SNIA Solid State Storage Performance Test Specification Enterprise v1.1
 - 4K sector size
 - Drive write cache enabled
 - NVMe power state 0
 - Sequential workloads measured using FIO with a queue depth of 32
 - Random READ workloads measured using FIO with a queue depth of 256
 - Random WRITE workloads measured using FIO with a gueue depth of 128



Table 2: Drive Performance - MAX

| | | Capacity (GB) | | | | | | | | | | | | | |
|-----------------------------------|---|---------------|------|----------|------|-------|----------|------------------|--------|-------------------------------------|----------|----------------------------|----------------------------|--|--|
| Param- eter Power | M.2 (2280/ (2280) 22110) M.2 (22110) | | | | | U.3 (| (15mm/7 | mm) ¹ | | E1.S (25mm/15mm/5.9mm) ² | | | | | |
| State 0 | 400 | 800 | 1600 | 3200 | 800 | 1600 | 3200 | 6400 | 12,800 | 800 | 1600 | 3200 | 6400 | | |
| Sequentia | sequential (128KB transfer) (MB/s) | | | | | | | | | | | | | | |
| Read | 5000 | 5000 | 5000 | 5000 | 6800 | 6800 | 6800 | 6800 | 6800 | 6800 | 6800 | 6800 | 6800 | | |
| Write | 700 | 1400 | 2400 | 2500 | 1400 | 2700 | 5300 | 5600 | 5600 | 1400 | 2600 | 5000/ 4000 ³ | 5600/ 4000 ³ | | |
| Random (| Random (4KB transfer) (IOPS) | | | | | | | | | | | | | | |
| Read | 280K | 520K | 735K | 735K | 530K | 800K | 1M | 1M | 1M | 530K | 800K | 1M | 1M | | |
| Write | 65K | 156K | 250K | 300K | 145K | 250K | 390K | 400K | 410K | 145K | 250K | 390K | 400K | | |
| 70/30 random read/ write | 78K | 165K | 270K | 450K | 165K | 290K | 500K | 645K | 680K | 165K | 290K | 500K | 645K | | |
| Latency (μ | ıs) | | | <u>'</u> | | | <u>'</u> | | | | <u>'</u> | ' | | | |
| READ (TYP) | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | | |
| WRITE (TYP) | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | | |
| READ (99%) | 95 | 95 | 90 | 90 | 95 | 90 | 90 | 90 | 90 | 95 | 90 | 90 | 90 | | |
| WRITE (99%) | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | |

Notes: 1. U.3 15mm performance measured at 25W, U.3 7mm measured at 15W.

- 2. E1.S 25mm and E1.S 15mm performance measured at 25W, E1.S 5.9mm measured at 12W
- 3. Reduced performance at 12W.
- 4. Performance values measured under the following conditions:
 - Steady state as defined by SNIA Solid State Storage Performance Test Specification Enterprise v1.1
 - 4K sector size
 - Drive write cache enabled
 - NVMe power state 0
 - Sequential workloads measured using FIO with a queue depth of 32
 - Random READ workloads measured using FIO with a queue depth of 256
 - Random WRITE workloads measured using FIO with a queue depth of 128
- 5. Performance values measured with the following system configuration:
 - Generic X570 motherboard
 - AMD Ryzen 73700X 8-Core CPU @ 2.6 GHz
 - DDR4 16GB @ 3200 MHz
- 6. Latency values measured under the following configuration:
 - Random workloads using FIO with 4KB transfers and a queue depth of 1
 - TYP = median, 50th percentile
- 7. System variations will affect measured results.



Endurance

While actual endurance varies depending on conditions, the drive lifetime can be estimated based on capacity, assumed fixed-use models, ECC, and formatted sector size.

Lifetime estimates for the device are shown in the following tables in total bytes written.

Table 3: Total Bytes Written

| Model | Capacity (GB) | 4K Random Total Bytes Written (TB) | 128K Sequential Total Bytes Written (TB) |
|-------|---------------|---------------------------------------|---|
| PRO | 480 | 800 | 3550 |
| | 960 | 1700 | 6400 |
| | 1920 | 3650 | 12,800 |
| | 3840 | 7300 | 24,400 |
| | 7680 | 14,000 | 48,800 |
| | 15,360 | 28,000 | 83,500 |
| MAX | 400 | 2100 | 4000 |
| | 800 | 4300 | 7800 |
| | 1600 | 8700 | 15,900 |
| | 3200 | 17,500 | 30,900 |
| | 6400 | 35,000 | 61,800 |
| | 12,800 | 70,000 | 119,100 |

Notes: 1. Values represent the theoretical maximum endurance for the given transfer size and type. Actual lifetime will vary by workload. Refer to Percentage Used in the SMART/Health Information (Log Identifier 02h) to check the device life used.

^{2.} Total bytes written calculated assuming drive is 100% full (user capacity) with workload of 100% random aligned 4KB writes.



Electrical Characteristics

Table 4: Power Consumption - PRO

| | | Capacity (GB) | | | | | | | | | | | | |
|-------------------------------------|-----|---------------|------|------|-----|------|------|------|----------------------------|-----|------|--------------------------|------------------------|------|
| Parameter | M.2 | | | U.3 | | | | E1.S | | | | | | |
| Power State 0 | 480 | 960 | 1920 | 3840 | 960 | 1920 | 3840 | 7680 | 15,360 | 960 | 1920 | 3840 | 7680 | Unit |
| Active read (maximum RMS) | 7 | 7 | 7.3 | 8.2 | 10 | 10.1 | 10.5 | 12.2 | 12.2 | 9.5 | 12 | 12 | 12 | W |
| Active write (maximum RMS) | 4.5 | 5.7 | 7.5 | 8.2 | 7 | 9.1 | 14 | 15 | 15.0/ 17.1 ¹ | 7 | 12 | 12/ 13.5 ² | 12/ 15 ² | W |
| 128K sequential read (average RMS) | 7 | 7 | 8 | 7.9 | 9.5 | 10 | 10.5 | 12.1 | 12.1 | 9 | 11.3 | 11.5 | 12 | W |
| 128K sequential write (average RMS) | 4.3 | 5.6 | 7.5 | 7.9 | 7 | 9 | 12.5 | 15 | 15/ 16.6 ¹ | 7 | 9 | 12/ 13 | 12/ 14 | W |
| 4K random read (average RMS) | 4.3 | 5.5 | 7 | 8.2 | 7 | 8 | 8.1 | 12.1 | 12.1 | 7 | 8 | 10 | 11 | W |
| 4K random write (average RMS) | 4.5 | 5.5 | 8 | 8 | 7 | 8.8 | 10.3 | 12.1 | 12.1 | 7 | 8.3 | 11.5 | 12 | W |
| Idle (average RMS) | 2.9 | 2.9 | 2.9 | 2.9 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | W |

Notes: 1. Split indicates 7mm/15mm.

- 2. Split indicates 12W/20W.
- 3. Power limiting is configured through Set/Get Features Power Management.
- 4. Power consumption measurements are for reference only; actual workload power consumption will vary.

Table 5: Power Consumption - MAX

| Capacity (GB) | | | | | | | | | | | | | | |
|---|-----|-----|------|------|-----|------|------|--------------------------|-------------|-----|------|--------------------------|------------------------|------|
| Parameter | M.2 | | | U.3 | | | | | E1 | I.S | | | | |
| Power State 0 | 400 | 800 | 1600 | 3200 | 800 | 1600 | 3200 | 6400 | 12,800 | 800 | 1600 | 3200 | 6400 | Unit |
| Active read (maximum RMS) | 7.1 | 7.1 | 7.3 | 8.2 | 10 | 10.1 | 10.5 | 12.2 | 12.2 | 9.5 | 12 | 12 | 12 | W |
| Active write (maximum RMS) | 4.5 | 5.7 | 8.2 | 7 | 9.1 | 14 | 15 | 15/ 17.1 ¹ | 7 | 12 | 12.0 | 12/ 13.5 ² | 12/ 15 ² | W |
| 128K sequential read (average RMS) | 7 | 7 | 8 | 7.9 | 9.5 | 10 | 10.5 | 12.1 | 12.1 | 9 | 11.3 | 11.5 | 12 | W |
| 128K sequential write (average RMS) | 4.3 | 5.6 | 7.5 | 7.9 | 7 | 9 | 12.5 | 15 | 15/ 16.6 | 7 | 9 | 12/ 13 | 12/ 14 | W |
| 4K random read (average RMS) | 4.3 | 5.5 | 7 | 8.2 | 7 | 8 | 10 | 12.1 | 12.1 | 7 | 8 | 10 | 11 | W |
| 4K random write (average RMS) | 4.5 | 5.5 | 8 | 8 | 7 | 8.8 | 10.3 | 12.1 | 12.1 | 7 | 8.3 | 11.5 | 12 | W |
| Idle (average RMS) | 2.9 | 2.9 | 2.9 | 2.9 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | W |

Notes: 1. Split indicates 7mm/15mm.

- 2. Split indicates 12W/20W.
- 3. Power limiting is configured through Set/Get Features Power Management.
- 4. Power consumption measurements are for reference only; actual workload power consumption will vary.



Table 6: Operating Voltage - U.3 and EDSFF

| Power Rail | Electrical Parameter | Value |
|----------------------|-------------------------------|---------------|
| 12V | Operating voltage | 12 Vdc (±10%) |
| | MIN/MAX rise time | 10ms/100ms |
| | Fall time | <5s |
| | MIN power-off time | 50ms |
| | Inrush current (typical peak) | 2.0A |
| | MAX average current (RMS) | 1.2A |
| 3.3 V _{AUX} | Operating voltage | 3.3 Vdc (±5%) |
| | MIN/MAX rise time | 1ms/50ms |
| | MIN/MAX fall time | 1ms/5s |
| | MAX average current | 20mA |

Table 7: Operating Voltage - M.2

| Power Rail | Electrical Parameter | Value |
|------------|-------------------------------|---------------|
| 3.3V | Operating voltage | 3.3 Vdc (±5%) |
| | MIN/MAX rise time | 1ms/50ms |
| | MIN/MAX fall time | 1ms/5s |
| | MIN power-off time | 1s |
| | Inrush current (typical peak) | 2.5A |
| | MAX average current (RMS) | 2.4A |

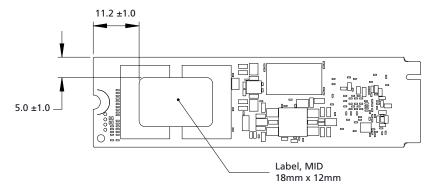


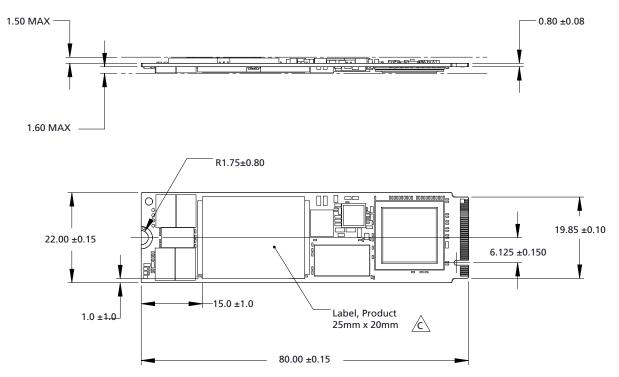
Physical Configuration

M.2 Type 2280 and 22110

M.2 Type 2280 product mass: less than 11 grams M.2 Type 22110 product mass: less than 14 grams

Figure 2: M.2 Type 2280 Nominal Dimensions

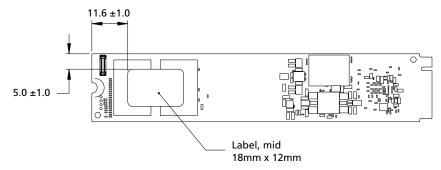




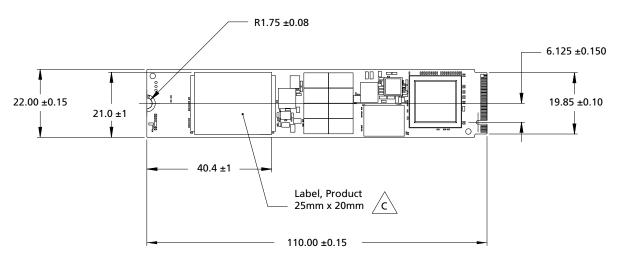
Note: 1. All dimensions are in millimeters.



Figure 3: M.2 Type 22110 Nominal Dimensions







Note: 1. All dimensions are in millimeters.

Table 8: M.2 Type 2280 and 22110 Maximum Dimensions

| Form Factor | Width | Length | Height | Unit |
|-------------|-------|--------|--------|------|
| M.2 2280 | 22.00 | 80.00 | 3.9 | mm |
| M.2 22110 | 22.00 | 110.00 | 3.9 | mm |

Table 9: M.2 Type 2280 and 22110 Minimum Gold Finger Dimensions

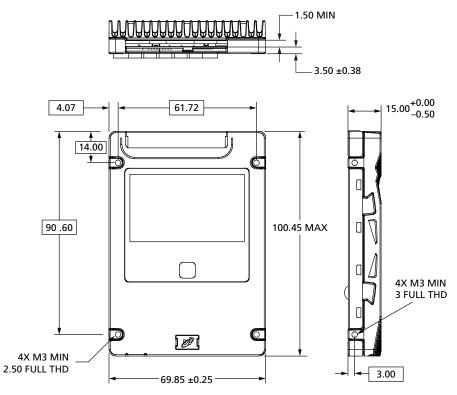
| Form Factor | Height | Unit |
|-------------|--------|------|
| M.2 2280 | 0.76 | μm |
| M.2 22110 | 0.76 | μm |



U.3 Enterprise PCIe (SFF - 8201 and SFF - 8223)

Product mass: less than 150g/80 grams for U.3 15mm/7mm. Drive connector supports latching.

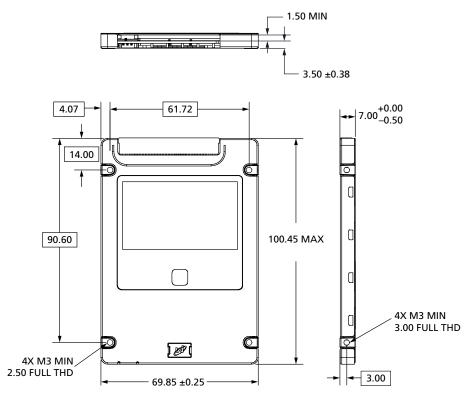
Figure 4: U.3 15mm Nominal Dimensions



Note: 1. All dimensions are in millimeters.



Figure 5: U.3 7mm Nominal Dimensions



Note: 1. All dimensions are in millimeters.

Table 10: U.3 Enterprise PCIe Maximum Dimensions

| Form Factor | Width | Length | Height | Unit | |
|-------------|-------|--------|------------|------|--|
| U.3 | 70.10 | 100.45 | 7.00/15.00 | mm | |

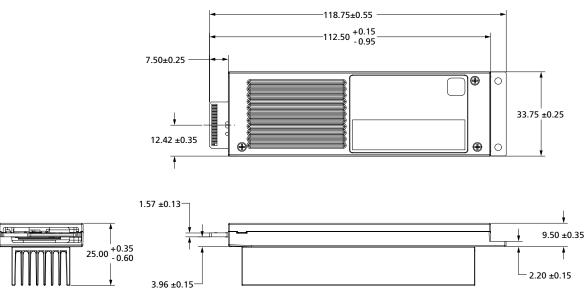
Note: 1. Dimension values per SFF - 8201, Revision 3.4 and SFF - 8223 Revision 2.7.

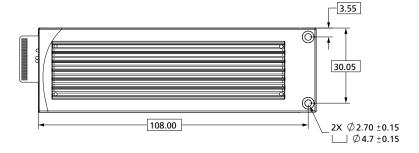


E1.S Enterprise PCIe x4

Product mass: less than 110g/85g/30 grams for E1.S 25mm/15mm/5.9mm.

Figure 6: E1.S 25mm Nominal Dimensions

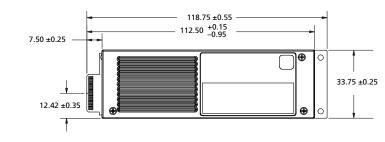




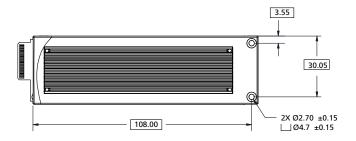
Note: 1. All dimensions are in millimeters.



Figure 7: E1.S 15mm Nominal Dimensions



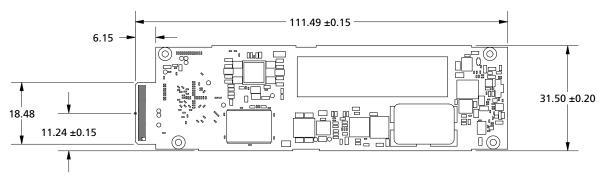




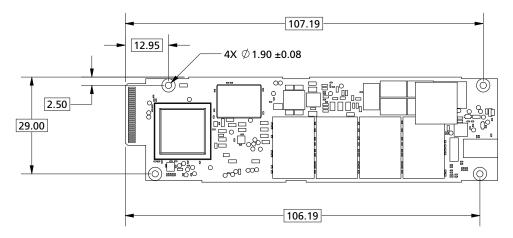
Note: 1. All dimensions are in millimeters.



Figure 8: E1.S 5.9mm Nominal Dimensions







Note: 1. All dimensions are in millimeters.

Table 11: E1.S Enterprise PCIe x4 Maximum Dimensions

| Form Factor | Width | Length | Height | Unit |
|-------------|-------|--------|--------|------|
| E1.S | 33.75 | 118.75 | 15/25 | mm |
| E1.S | 31.50 | 111.50 | 5.90 | mm |

Note: 1. Dimension values per SFF-TA-1006 Revision 1.4.



Compliance

Micron SSDs comply with the following:

- · Micron Green Standard
- Built with sulfur-resistant resistors
- CE (Europe): EN55032, EN55035 Class B, RoHS
- FCC: CFR Title 47, Part 15, Class B
- UL/cUL: approval to UL 62368-1, IEC 62368-1
- BSMI (Taiwan): approval to CNS 13438, Class B, CNS 15663
- RCM (Australia, New Zealand): AS/NZS CISPR32 Class B
- KC RRL (Korea): approval to KS C 9835, KS C 9832
 B 급 기기
 이 기기는 가정용으로 전자파적합등록을한 기기로서 주거

(가정용 정보통신기기) 지역에서는 물론 모든지역에서 사용할 수 있습니다.

- W.E.E.E.: Compliance with EU WEEE directive 2012/19/EC. Additional obligations may apply to customers who place these products in the markets where WEEE is enforced.
- TUV (Germany): approval to EN 62368-1
- V_{CCI} (Japan): CRISPR 32 Class B この装置は、クラス B 情報技術装置です。この装置は、家庭環境で使用することを目 的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、 受信障害を引き起こすことがあります。 取扱説明書に従って正しい取り扱いをして下さい。 VCCI-B
- IC (Canada): ICES-003 Class B
 - This Class B digital apparatus complies with Canadian ICES-003.
 - Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
- Morocco: EN55032, EN55035 Class B
- UkrSEPRO (Ukraine): EN55032 Class B, EN 62368, RoHS (Resolution 2017 No. 139)



• UKCA (UK): SI 2016/1091 Class B and SI 2012/3032 RoHS



Revision History

Rev. B - 03/2024

• Added 128K Sequential Total Bytes Written (TB) column to Endurance section.

Rev. A - 07/2023

• First Production release

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This data sheet contains minimum and maximum limits specified over the power supply and temperature range set forth herein. Although considered final, these specifications are subject to change, as further product development and data characterization sometimes occur.