

EP7011

Product Technical Brief

•Key Features:

- AES 256-bit Encryption
- Power loss protection
- S.M.A.R.T. drive health monitoring
- End-to-End data path protection
- Data Compression
- Secure erase: standard/enhanced

•Capacities:

- 80 GB, 240 GB, 480 GB

•Components:

- Controller: SF2581
- MLC NAND Flash Memory

•Form Factor:

- 2.5-inch

•Weight:

- 80 grams (MAX)

•Sequential sustained Read/Write¹:

- 128KB/QD32 Read: up to 535 MB/s
- 128KB/QD32 Write: up to 490 MB/s

•Random sustained Read/Write²:

- 4KB/QD32 Read: up to 49,000 IOPS
- 4KB/QD32 Write: up to 42,000 IOPS

•Latency (TYP):

- up to Read: 0.22 ms
- up to Write: 0.10 ms

•Endurance:

- 80 GB: 0.2 DWPD
- 240 GB: 0.3 DWPD
- 480 GB: 0.3 DWPD

•Altitude:

- operating: -200 to 10,000 ft
- non-operating: -1,000 to 40,000 ft

•Power Management:

- 5 V SATA supply rail
- Hot-plug/removal

•Power:

- Active: up to 3.3 W (Typ)
- Idle: 560 mW

•Temperature:

- Operating: 0 °C to 70 °C
- Non-Operating: -40 °C to 85 °C
- Temperature monitoring and logging

•Reliability:

- MTBF: 2,000,000 hours
- ECC recovery: Up to 55 bits correctable per 512-byte sector
- UBER: ≤ 1 sector per 10^{16} bits read

•Vibration:

- Operating: 2.17 G rms (5 - 700 Hz)
- Non-operating: 3.13 G rms (5 - 800 Hz)

•Shock (operating and non-operating):

- Shock: 1,000 G/0.5 ms

•Product Ecological Compliance:

- RoHS, REACH

•Certifications and Declarations:

- UL, CE, FCC, SATA-IO, BSMI, RCM/C-Tick
- KC/KCC, VCCI, CB, IC

•Compliance:

- SATA Revision 3.0; compatible with SATA 6Gb/s, 3Gb/s and 1.5Gb/s interface rates
- ATA-ATAPI command Set – 2 (ACS-2); includes SCT (Smart Command Transport) and device statistics log support
- Native Command Queuing (NCQ) support
- Data set management (TRIM) with OS support
- Enhanced SMART ATA feature set

•Compatibility:

- Windows Server: 2008 R2, 2012 R2
- Red Hat Enterprise Linux 6.6/7.1
- SUSE Enterprise Linux 12

•Warranty:

- 5 year Limited Warranty³

1. Performance measured using compressible data

2. Performance measured using compressible data

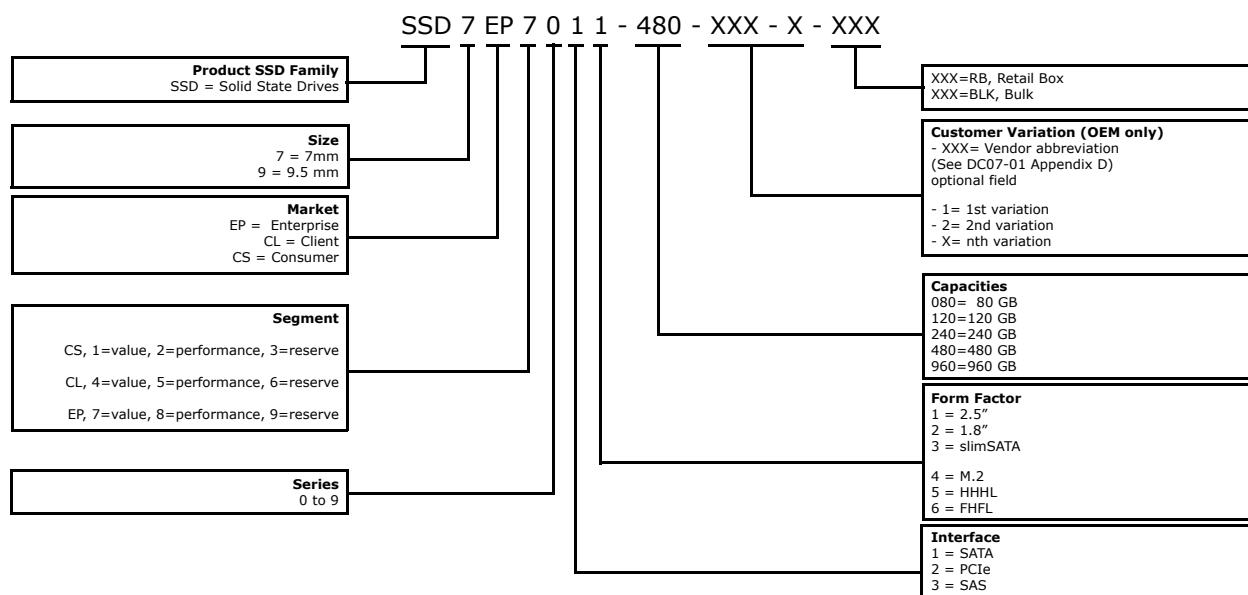
3. For more information visit www.PNY.com

EP7011

Ordering Information

Part Number	Size	Form Factor
SSD7EP7011-080-XXX	80 GB	2.5-inch (7mm with 2.5mm spacer)
SSD7EP7011-240-XXX	240 GB	2.5-inch (7mm with 2.5mm spacer)
SSD7EP7011-480-XXX	480 GB	2.5-inch (7mm with 2.5mm spacer)

Part Number Chart



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