CL4111

Product Technical Brief

- Capacities:
  - 120 GB, 240 GB, 480 GB
  - 960 GB (see datasheet *PNY_SSD_DATA-SHEET_CL4111_960*)
- Components:
  - Controller: SF2281
  - MLC NAND Flash Memory
- Form Factor:
  - 2.5-inch
- Thickness:
  - 7 mm with 2.5 mm spacer
- Weight:
  - 80 grams (MAX)
- Sequential Read/Write[1]:
  - Sequential Read: up to 555 MB/s
  - Sequential Write: up to 530 MB/s
- Random Read/Write[2]:
  - Random Read: up to 36,000 IOPS
  - Random Write: up to 90,000 IOPS
- Compliance:
  - SATA Revision 3.1; 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
- AES 256-bit Encryption
- Features:
  - RAISE™ provides RAID-like protection
  - Native Command Queuing (NCQ)
  - Data set management (TRIM) with OS support
  - Enhanced SMART ATA feature set
  - Secure Erase: standard/enhanced
  - Meets JESD218A (client drive class) standard

- Power Management:
  - 2.5-inch: 5V SATA Supply Rail
  - HIPM/DIPM
  - SATA Link Power Management (LPM)
  - SATA Interface Power Management
  - Hot plug/removal
- Power:[3]
  - Active: 1.49W (Avg)
  - Idle: 0.23W (Avg)
- Temperature:
  - Operating: 0° C to 70° C
  - Non-Operating: -40 °C to 85 °C
  - Temperature monitoring and logging
- Reliability:
  - UBER: $\leq$ 1 sector per 10^{15} bits read
  - MTBF: 1,500,000 hours
  - Shock: 1,500 G/0.5 ms, operating
  - ECC: Up to 55 bits correctable per 512-byte sector
- Product Ecological Compliance:
  - RoHS, REACH
- Certifications and Declarations:
  - CE, FCC, SATA-IO, BSMI, RCM/C-Tick, UL
  - CB, IC, VCCI
- Compatibility:
  - Windows 7 and Windows 8.1
  - openSUSE 13.1
  - Ubuntu 14.04
  - CentOS 7.0
  - Apple OS X Yosemite
- Warranty
  - 5 year Limited Warranty

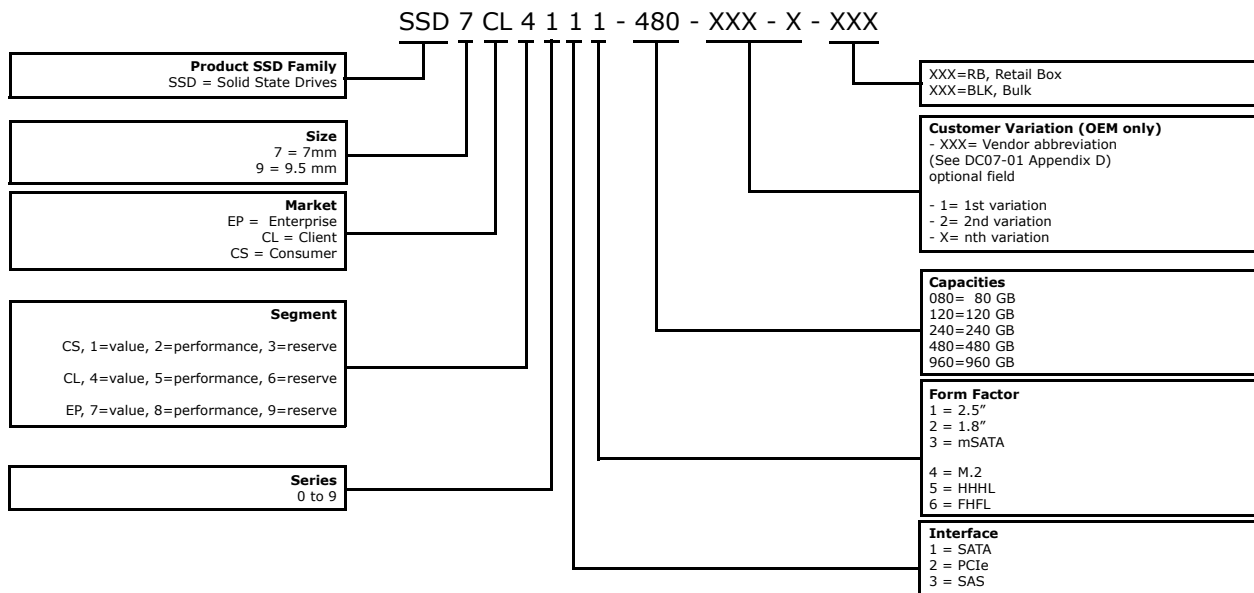1. 128KB transfer size: QD32
2. 4KB transfer size: QD32

3. Based on 480 GB

CL4111

Ordering Information

Part Number	Size	Form Factor
SSD7CL4111-120-XXX	120 GB	2.5-inch (7mm with 2.5mm spacer)
SSD7CL4111-240-XXX	240 GB	2.5-inch (7mm with 2.5mm spacer)
SSD7CL4111-480-XXX	480 GB	2.5-inch (7mm with 2.5mm spacer)

Part Number Chart

SSD 7 CL 4 1 1 1 - 480 - XXX - X - XXX

Product SSD Family
SSD = Solid State Drives

Size
7 = 7mm
9 = 9.5 mm

Market
EP = Enterprise
CL = Client
CS = Consumer

Segment
CS, 1=value, 2=performance, 3=reserve
CL, 4=value, 5=performance, 6=reserve
EP, 7=value, 8=performance, 9=reserve

Series
0 to 9

XXX=RB, Retail Box
XXX=BLK, Bulk

Customer Variation (OEM only)
- XXX= Vendor abbreviation
(See DC07-01 Appendix D)
optional field
- 1= 1st variation
- 2= 2nd variation
- X= nth variation

Capacities
080= 80 GB
120=120 GB
240=240 GB
480=480 GB
960=960 GB

Form Factor
1 = 2.5"
2 = 1.8"
3 = mSATA
4 = M.2
5 = HHHL
6 = FHFL

Interface
1 = SATA
2 = PCIe
3 = SAS

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