CS1111

**Product Technical Brief**

- **Capacities:**
  - 120 GB, 240 GB, 480 GB
- **Components:**
  - Controller: SM2246EN
  - 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 460 MB/s
  - Sequential Write: up to 415 MB/s
- **Random Read/Write\(^2\):**
  - Random Read: up to 71,000 IOPS
  - Random Write: up to 73,000 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
- **Features:**
  - Native Command Queuing (NCQ)
  - Data set management (TRIM)
  - Enhanced SMART ATA feature set
  - ECC: Up to 66 bits correctable per 1024-byte sector Read
- **Power Management:**
  - 2.5-inch: 5V SATA Supply Rail
  - HIPM/DIPM
  - SATA Link Power Management (LPM)

- **Power\(^3\):**
  - Active: 0.81W (Avg)
  - Idle: 0.53W (Avg)
- **Temperature:**
  - Operating: 0° C to 70° C
  - Non-Operating: -40° C to 85° C
  - Temperature monitoring and logging
- **Reliability:**
  - UBER: ≤ 1 sector per 10\(^{15}\) bits read
  - MTBF: 1,000,000 hours
- **Shock:**
  - 1,500 G/0.5 ms, operating
- **Product Ecological Compliance:**
  - RoHS, REACH
- **Certifications and Declarations:**
  - CE, FCC, RCM/C-Tick, SATA-IO, BSMI
- **Compatibility:**
  - Windows 7 and Windows 8.1
  - openSUSE 13.1
  - Ubuntu 14.04
  - CentOS 7.0
  - Apple OS X Yosemite
  - PNY Drive Utility
- **Warranty**
  - 3 year Limited Warranty\(^4\)

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1. 128KB transfer size: QD32
2. 4KB transfer size: QD32
3. Based on 480 GB
4. Standard warranty is 1-year. Three-year warranty granted upon registration at www.PNY.com. Product must be registered within 90 days of purchase.
## Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Size</th>
<th>Form Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSD7CS1111-120-XXX</td>
<td>120 GB</td>
<td>2.5-inch (7mm with 2.5mm spacer)</td>
</tr>
<tr>
<td>SSD7CS1111-240-XXX</td>
<td>240 GB</td>
<td>2.5-inch (7mm with 2.5mm spacer)</td>
</tr>
<tr>
<td>SSD7CS1111-480-XXX</td>
<td>480 GB</td>
<td>2.5-inch (7mm with 2.5mm spacer)</td>
</tr>
</tbody>
</table>

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