

DATA SHEET

Speed. Versatility. Dependability.

# BarraCuda Q1



Improve PC performance with up to 20× faster speeds than hard drives<sup>1</sup>. Seagate® BarraCuda™ Q1 is an internal SATA SSD built with the latest QLC NAND technology. Easily upgrade via universal plug-and-play compatibility, and take advantage of durability with up to 280TB total bytes written (TBW).



### Best-Fit Applications

- Desktop upgrades
- Laptop upgrades
- Workstation upgrades
- 3.5 HDD or 2.5 HDD swap-out upgrades

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Upgrade to affordable SSD performance with next-gen 3D QLC NAND.

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Leverage a SATA SSD that provides up to 20× faster speeds than hard drives.<sup>1</sup>

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Harness high sequential read/write speeds (up to 550/500MB/s) for more responsive downloads, installs, and multitasking.

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Easily upgrade from hard drives using universal plug-and-play SATA connections.

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Extend the battery life of your laptop with low active power requirements of up to 2.1W.

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Migrate and clone data from old drives with ease using free Seagate DiscWizard™ software tool.

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Benefit from long-term durability with up to 531TB total bytes written (TBW)

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Migrate and clone data from old drives with ease using free Seagate DiscWizard™

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Monitor SSD performance, health, and firmware updates with free Seagate SeaTools™ SSD software tool.

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Improve durability over the long haul with up to 280TB total bytes written (TBW)

<sup>1</sup> Based on PCMark8 Storage 2.0 Bandwidth (169.2MB/s BC Q1 SSD vs 8.34MB/s HDD). Internal testing.



| Specifications                                   | 960GB            | 480GB            | 240GB            |
|--|------------------|------------------|------------------|
| Standard Model                                   | ZA960CV10001     | ZA480CV10001     | ZA240CV10001     |
| Interface <sup>1</sup>                           | SATA 6Gb/s       | SATA 6Gb/s       | SATA 6Gb/s       |
| NAND Flash Memory                                | 3D QLC           | 3D QLC           | 3D QLC           |
| Form Factor                                      | 2.5 in x 7mm     | 2.5 in x 7mm     | 2.5 in x 7mm     |
| <b>Performance</b>                               |                  |                  |                  |
| Sequential Read (Max, MB/s), 128KB <sup>2</sup>  | 550              | 550              | 550              |
| Sequential Write (Max, MB/s), 128KB <sup>2</sup> | 500              | 500              | 450              |
| <b>Endurance/Reliability</b>                     |                  |                  |                  |
| Total Bytes Written (TB)                         | 280              | 110              | 50               |
| Mean Time Between Failures (MTBF, hours)         | 1,800,000        | 1,800,000        | 1,800,000        |
| Warranty, Limited (years)                        | 3                | 3                | 3                |
| <b>Power Management</b>                          |                  |                  |                  |
| Active Power, Average (W)                        | 2.1              | 2.0              | 1.7              |
| Slumber (mW)                                     | 23               | 22               | 20               |
| <b>Environmental</b>                             |                  |                  |                  |
| Temperature, Operating Internal (°C)             | 0 to 70          | 0 to 70          | 0 to 70          |
| Temperature, Nonoperating (°C)                   | -40°C – 85°C     | -40°C – 85°C     | -40°C – 85°C     |
| Shock, Nonoperating: 0.5ms (Gs)                  | 1500             | 1500             | 1500             |
| <b>Special Features</b>                          |                  |                  |                  |
| TRIM   | Yes              | Yes              | Yes              |
| S.M.A.R.T.                                       | Yes              | Yes              | Yes              |
| Halogen Free                                     | Yes              | Yes              | Yes              |
| RoHS Compliance                                  | Yes              | Yes              | Yes              |
| <b>Physical</b>                                  |                  |                  |                  |
| Height (mm/in, max)                              | 7.10mm/0.279in   | 7.10mm/0.279in   | 7.10mm/0.279in   |
| Width (mm/in, max)                               | 70.10mm/2.759in  | 70.10mm/2.759in  | 70.10mm/2.759in  |
| Depth (mm/in, max)                               | 100.40mm/3.953in | 100.40mm/3.953in | 100.40mm/3.953in |
| Weight (g/lb)                                    | 40g/0.088lb      | 40g/0.088lb      | 40g/0.088lb      |

<sup>1</sup> Backward compatible to SATA 3Gb/s and SATA 1.5Gb/s

<sup>2</sup> Fresh out of box (FOB) performance obtained on newly formatted drive. Performance may vary based on SSD's firmware version, system hardware, and configuration. Performance based on CrystalDiskMark v.5.0 x64 with SATA 6Gb/s host.



| Specifications            |                 |                          |                   |
|---------------------------|-----------------|--------------------------|-------------------|
| Retail Packaging          | Box Dimensions  | Master Carton Dimensions | Pallet Dimensions |
| Length (in/mm)            | 0.555in/14.1mm  | 7.717in/196mm            | 47.992in/1219mm   |
| Width (in/mm)             | 5.236in/133mm   | 12.126in/308mm           | 20in/508mm        |
| Depth (in/mm)             | 7.008in/178mm   | 6.339in/161mm            | 37.283in/947mm    |
| Weight (lb/kg)            | 0.159lb/0.072kg | 3.968lb/1.8kg            | 131.396lb/59.6kg  |
| Quantities                |                 |                          |                   |
| Boxes per Master Carton   | 20              |                          |                   |
| Master Cartons per Pallet | 30              |                          |                   |
| Pallet Layers             | 5               |                          |                   |

| System Requirements | What's Included |
|---------------------|-----------------|
|---------------------|-----------------|

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|---|--|
| <ul style="list-style-type: none"> <li>• SATA 6Gb/s or SATA 3Gb/s port</li> <li>• Windows<sup>®</sup> 10, Windows 8.1</li> <li>• Linux</li> </ul> | <ul style="list-style-type: none"> <li>• Seagate<sup>®</sup> BarraCuda<sup>™</sup> Q1 SSD</li> </ul> |
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| Region | Model Number | Capacity | Limited Warranty (years) | UPC Code     | EAN Code      | Multi-Pack UPC |
|--------|--------------|----------|--------------------------|--------------|---------------|----------------|
| WW     | ZA240CV1A001 | 240GB    | 3                        | 763649147337 | 8719706027588 | 10763649147334 |
| WW     | ZA480CV1A001 | 480GB    | 3                        | 763649143551 | 8719706024310 | 10763649143558 |
| WW     | ZA960CV1A001 | 960GB    | 3                        | 763649143568 | 8719706024327 | 10763649143565 |

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