

**SSD Q300** 



If your PC can't keep up with you, it's time to upgrade with a Toshiba Q300 Solid State Drive. With 3-bit-per-cell flash and unique Toshiba controller technology, you'll experience high-speed boot up and fast system responsiveness. A Q300 SSD is a fantastic upgrade that will increase your performance both in the office and out.



## Performance for everday use

A solid state drive reduces OS boot time and speeds up your computing system responsiveness rates by leaps and bounds.



### Give yourself a boost

The SSD Q300 uses 3-bitper-cell flash to maximise storage capacity, without sacrificing speed. Your system will be more responsive than ever.



### Lining things up for speed

Toshiba SSDs are based on NAND Flash technology and incorporate Toshiba controllers to achieve industry-leading levels of performance and reliability.



# SSD Q300

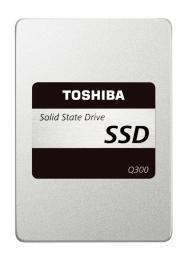
#### **Specifications and Performance**

| Specifications and Performance                      |  |
|---|--|
| Part number:  | SSD - Q300 - 960GB: HDTS896EZSTA                                     |
|   | SSD - Q300 - 480GB: HDTS848EZSTA                                     |
|   | SSD - Q300 - 240GB: HDTS824EZSTA<br>SSD - Q300 - 120GB: HDTS812EZSTA |
| Storage memory:                                     | 3-bit-per-cell 15nm NAND Flash                                       |
| Available capacities:                               | 960GB, 480GB, 240GB, 120GB   |
| Controller:   | Toshiba TC58NC1000   |
| Interface:  | SATA III (6.0 Gbit/s, backwards compatible                           |
|   | with 3.0 Gbit/s and 1.5 Gbit/s)                                      |
| Max. transfer rate:                                 | 6.0 Gbit/s   |
| Sequential Read Speed                               |  |
| (measured with lometer):                            | Up to 550MB/s  |
| Sequential Write Speed                              | Up to 530MB/s (960GB)  |
| (measured with lometer):                            | Up to 520MB/s (480GB, 240GB)   |
|   | Up to 450MB/s (120GB)  |
| Random Read Speed                                   | Up to 87,000 IOPS (960GB)  |
| (measured with CrystalDiskMark 4.1.0, 4kiB, QD32):  | Up to 86,000 IOPS (480GB, 240GB)                                     |
|   | Up to 81,000 IOPS (120GB)  |
| Random Write Speed                                  | Up to 83,000 IOPS (960GB, 480GB)                                     |
| (measured with CrystalDiskMark 4.1.0, 4kiB, QD32):  | UP to 73,000 IOPS (240GB)  |
|   | Up to 40,000 IOPS (120GB)  |
| Advance Speed Technology:                           | Adaptive Size SLC Write Cache Technology                             |
| Zeroing TRIM Support:                               | yes and requires OS support  |
| Native Command Queuing (NCQ):                       | yes  |
| S.M.A.R.T Support:                                  | yes  |
| Garbage collection:                                 | yes  |
| Read only mode:                                     | yes  |
| MTTF:   | 1.500.000 hours  |
| Operating temperature:                              | 0°C - 65°C   |
| Non-Operating temperature:                          | -40°C - 85°C   |
| Power consumption:                                  | Active: 3.6W typ.  |
|   | Idle: 0.3W typ.  |
| Weight  | 57g - 61g typ.   |
| Dimension:  | 100mm x 69.85mm x 7 (mm)   |
| TBW (Client endurance workload specified by JES-    | 960GB: 240TB   |
| D219A Solid-State Drive (SSD) Endurance Workloads): | 480GB: 120TB   |
|   | 240GB: 60TB  |
|   | 120GB: 30TB  |
| Cloning tool software:                              | NTI Echo 3 (migration software) by download                          |
| Utility tool software:                              | Toshiba Storage Utilities by download                                |
| Box Content   |  |

- Box Content

  Solid State Drive
- Spacer for 9.5mm applications
- Quick Start Guide
- Warranty Leaflet





### **Top features**

- 15nm 3-bit-per cell NAND flash memory
- Adaptive Size SLC Write Cache technology
- High-speed boot-up
- Fast system responsiveness
- Resistance to vibration and shock

### **Retail packaging**

