The Dataram SSD (Solid State Drive) fully consists of semiconductor devices using Marvell controller and Intel NAND Flash Memory which provide high reliability and high performance for a storage media. The SSD doesn't have any moving parts such as platter (disk) and head media, which provides a better solution in a notebook PC, Tablet PC and industrial PC for a storage device providing higher performance, reduced latencies, and a low power consumption in a small form factor. SSD has the same host interface with Hard Disk Drives and has a same physical dimension.

**Capacity**

−120GB/**240GB**/480GB/960GB are available

**Form Factor**

− 2.5 inch 7mm

**Host interface**

− Serial ATA interface of 6.0Gbps

− Complies with ATA/ATAPI-8

− Supports NCQ

− Supports TRIM

**Performance**

− Host transfer rate:

− Sequential Read: Up to 510MB/s (240GB)

− Sequential Write: Up to 410MB/s (240GB)

− Random Read (4K) QD=32 (Max) : 29440 IOPS (240GB)

− Random Write (4K) QD=32 (Max) : 48640 IOPS (240GB)

**Temperature**

− Operating: 0°C to 70°C

**MTBF**

− 1,500,000 Hours

**Weight**

− Max 45g

**Limited warranty:**

− 3 years

**Amazon compare table**:

|  |  |  |
| --- | --- | --- |
| **Device Type** | Solid State Drives | Solid State Drives |
| **Memory Storage Capacity** | 120 GB | 240 GB |
| **Data Transfer Rate** | 600 Mb per second | 600 Mb per second |
| **Flash Memory Installed Size** | 120 | 240 |
| **Form Factor** | 2.5 in | 2.5 in |
| **Hardware Connectivity** | SATA 6.0 Gb/s | SATA 6.0 Gb/s |
| **Hardware Platform** | PC | PC |
| **Item Dimensions** | 2.75 x 3.94 x 0.28 in | 2.75 x 3.94 x 0.28 in |
| **Item Weight** | 1.23 ounces | 1.23 ounces |
| **Model Year** | 2016 | 2016 |
| **Sequential Read Speed** | 510 MB/S | 500 MB/S |
| **Sequential Write Speed** | 370 MB/S | 410 MB/S |
| **Random Read (4K)** | 23040 IOPS | 29440 IOPS |
| **Random Write (4K)** | 43520 IOPS | 48640 IOPS |
| **NAND** | MLC | MLC |
| **Controller** | Marvell | Marvell |
| **Warranty** | Limited 3 years | Limited 3 years |