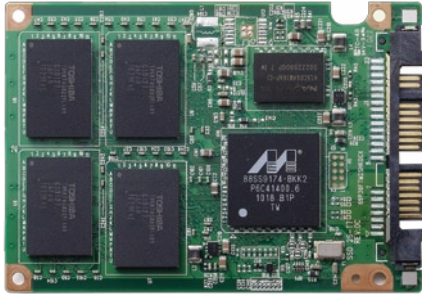


ASD18-MLC Series

1.8" SATA 6 Gb/s SSD with MLC NAND Flash



Features

- Sustained read up to 480 MB/s
- Sustained write up to 190 MB/s
- Capacity: 64, 128, 256 GB
- SATA 6 Gb/s interface
- Toshiba 24nm MLC Toggle NAND Flash
- Shock and vibration resistant

Specifications

Physical

| | |
|------------------|----------------------------------|
| Capacity | 64, 128 GB |
| Flash Components | Multi-Level Cell (MLC) NAND |
| Interface | SATA 6 Gb/s |
| Form Factor | 1.8" form factor |
| Dimensions | 77.7 x 53.5 x 3.4 mm (L x W x H) |
| Weight | 19 g (without case) |

Performance

| | |
|---------------------|---|
| Bandwidth | 64 GB: Sustained read/write up to 380/100 MB/s 128 GB: Sustained read/write up to 480/190 MB/s |
| Read and Write IOPS | 64 GB: Random 4KB read/write up to 50,000/24,000 IOPS 128 GB: Random 4KB read/write up to 65,000/43,000 IOPS |
| Power On to Ready | <1.0 sec |

Environmental

| | |
|-----------------------|--|
| Operating Temperature | 0°C to 70°C |
| Storage Temperature | -40°C to 85°C |
| Shock | 1,500 G, 0.5 ms |
| Vibration | Operating: 7~800 Hz, 2.17 Grms Non-operating: 7~800 Hz, 3.08 Grms |
| Certifications | UL, CE, RoHS, Microsoft WHQL |

Compatibility

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|------|--|
| SATA | SATA Revision 3.0 compliant: compatible with SATA 1.5 Gb/s, 3 Gb/s & 6 Gb/s interface ATA/ATAPI-8 compliant SSD enhanced SMART ATA feature set Native Command Queuing (NCQ) command set TRIM supported |
|------|--|

Power Requirements

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|------------|---|
| Management | 3.3V micro SATA SATA interface power management OS-aware hot plug/removal |
| Connector | 9-pin SATA connector for DC 3.3V input |

Reliability

| | |
|-------------------|--------------------------------|
| MTBF | > 1,500,000 hours |
| Long Life Support | Minimum of 3 years useful life |

Ordering Information

| Model Number | Description/Configuration |
|-------------------------|---|
| ASD18-MLC64G-C2 | 1.8" Micro SATA 6 Gb/s SSD 64 GB, MLC type, (0°C~70°C) |
| ASD18-MLC128G-C2 | 1.8" Micro SATA 6 Gb/s SSD 128 GB, MLC type, (0°C~70°C) |

Dimensions

