

MiPhi MP100 SATA III Solid State Drive

Part Number	MP311250G	MP311500G
Capacity	256GB	512 GB
Interface	SATA III (6 Gbps)	
Form Factor	M.2 2242/2260/2280 2.5" Half Slim mSATA mSATA mini BGA SSD Cfast SVFM	
NAND Flash	2D MLC 3D TLC/QLC	
DRAM	DRAM-less	
Performance		
Sequential Read	550 MB/s	550 MB/s
Sequential Write	465 MB/s	500 MB/s
4K Random Read	70K IOPS	75K IOPS
4K Random Write	80K IOPS	80K IOPS
Environmental		
Operating Temperature	0°C to 70°C	
Non-Operating Temperature	−40°C to 85°C	
Reliability & Warranty		
TBW	60 TB	120 TB
MTBF	2 million hours	
UBER	$< 10^{-12}$ bits	

MiPhi MP100 SATA III Solid State Drive

Part Number	MP311100T	MP311200T
Capacity	1 TB	2 TB
Interface	SATA III (6 Gbps)	
Form Factor	M.2 2242/2260/2280 2.5" Half Slim mSATA mSATA mini BGA SSD Cfast SVFM	
NAND Flash	2D MLC 3D TLC/QLC	
DRAM	DRAM-less	
Performance		
Sequential Read	550 MB/s	550 MB/s
Sequential Write	500 MB/s	500 MB/s
4K Random Read	80K IOPS	90K IOPS
4K Random Write	80K IOPS	85K IOPS
Environmental		
Operating Temperature	0°C to 70°C	
Non-Operating Temperature	−40°C to 85°C	
Reliability & Warranty		
TBW	250 TB	500 TB
MTBF	2 million hours	
UBER	$< 10^{-12}$ bits	