

MiPhi MP700G4 PCIe Gen 4 Solid State Drive

Part Number	MP5018512G	MP5018100T
Capacity	512 GB	1 TB
Interface	PCIe Gen 4.0 x 4 NVMe 1.4	
Form Factor	M.2 2280	
NAND Flash	3D TLC	
DRAM	DDR4 (2666 Mbps)	
Performance		
Sequential Read	7000 MB/s	7200 MB/s
Sequential Write	3700 MB/s	6000 MB/s
4K Random Read	450K IOPS	750K IOPS
4K Random Write	920K IOPS	1000K IOPS
Environmental		
Operating Temperature	0°C to 70°C	
Non-Operating Temperature	−40°C to 85°C	
Reliability & Warranty		
TBW	350 TB	700 TB
MTBF	1.6 million hours	
UBER	$< 10^{-16}$ bits	

MiPhi MP700G4 PCIe Gen 4 Solid State Drive

Part Number	MP5018200T	MP5018400T
Capacity	2 TB	4 TB
Interface	PCIe Gen 4.0 x 4 NVMe 1.4	
Form Factor	M.2 2280	
NAND Flash	3D TLC	
DRAM	DDR4 (2666 Mbps)	
Performance		
Sequential Read	7200 MB/s	7200 MB/s
Sequential Write	6850 MB/s	6850 MB/s
4K Random Read	1000K IOPS	1000K IOPS
4K Random Write	1000K IOPS	1000K IOPS
Environmental		
Operating Temperature	0°C to 70°C	
Non-Operating Temperature	−40°C to 85°C	
Reliability & Warranty		
TBW	1400 TB	3000 TB
MTBF	1.6 million hours	
UBER	$< 10^{-16}$ bits	

MiPhi MP700G4 PCIe Gen 4 Solid State Drive

Part Number	MP5018800T
Capacity	8 TB
Interface	PCIe Gen 4.0 x 4 NVMe 1.4
Form Factor	M.2 2280
NAND Flash	3D TLC
DRAM	DDR4 (2666 Mbps)
Performance	
Sequential Read	7000 MB/s
Sequential Write	5900 MB/s
4K Random Read	900K IOPS
4K Random Write	1000K IOPS
Environmental	
Operating Temperature	0°C to 70°C
Non-Operating Temperature	–40°C to 85°C
Reliability & Warranty	
TBW	6000 TB
MTBF	1.6 million hours
UBER	$< 10^{-16}$ bits