



QP6700 | PCIe NVMe | M.2 2230 SSD

The SMART Modular QP6700 PCIe NVMe M.2 2230 SSDs are ideal for compact platform applications, including industrial PCs, factory automation, commercial printers, networking, and telecommunication. Featuring an industry-standard PCIe Gen4 x4 interface and NVMe 1.4 protocol compliance, they offer a reliable embedded SSD solution for boot, OS, application software, and data storage. The QP6700 M.2 SSD modules integrate seamlessly into host systems without requiring special BIOS modifications or additional device drivers.



To ensure enhanced reliability, the QP6700 M.2 SSDs incorporate advanced LDPC error detection and correction along with internal data redundancy coding. Additionally, they are equipped with 30 μ" gold contacts and anti-sulfur resistors, providing high durability in demanding environments where reliability and longevity are essential

Features & Benefits

- PCIe Gen4 x4 NVMe 1.4 Compliant
- Advanced Thermal Throttling Algorithm
- Built-in Internal Thermal Sensor
- Support Static and Dynamic Wear Leveling
- Background Scan and Refresh
- Dataset Management (TRIM Commands)
- Support S.M.A.R.T. Command
- 30 μ" Gold Contacts
- Anti-Sulfur Resistor

Applications

- Commercial Printers
- Factory Automation
- Industrial PCs
- Networking
- Telecom

Product Family Overview

Form Factor	Capacity	Sequential Performance
M.2 2230 SSD	120GB	Up to 1700MB/s Read; Up to 1050MB/s Write

Specifications

QP6700 PCIe NVMe M.2 2230 SSD	
NAND Type	TLC
Performance	
Host Interface Rate (maximum)	PCIe Gen4 x4
Capacities	120GB
Sequential Read (maximum)	Up to 1700MB/s
Sequential Write (maximum)	Up to 1050MB/s
Random Read (maximum)	Up to 26K IOPS
Random Write (maximum)	Up to 43K IOPS
Reliability	
MTBF	> 2,000,000 hours
Endurance (JEDEC Enterprise Workload)	120GB: 50 TBW
Error Correction	LDPC
Power	
Input Voltage	VCC: 3.3 V ± 5%
Environmental	
Shock	1500 g half-sine, 0.5 msec, 1 shock along each axis, X, Y, Z in each direction
Vibration	20G 80-2000Hz, 1.52mm 20-80Hz, 3 axis
Operating Temperature	Commercial: 0°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	40°C, Operation: 90% RH, Storage: 93% RH
Physical	
Length	30.0 mm
Width	22.0 mm
Height	2.08 mm

¹Endurance is directly related to the User Specific Workload.

Ordering Information

Part Number	Density
QP6700 PCIe NVMe M.2 2230 SSD Commercial Operating Temperature (0°C to +70°C)	
SRMP3120GTCS4AC1	120GB



For more information, please visit: www.smartm.com

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