

SAMSUNG

P9 Express



Next-gen ready. Power up your gaming.

Enjoy smooth gaming with P9 Express, which works with Nintendo Switch™ 2. Featuring PCIe® technology for high-speed performance and Dynamic Thermal Guard (DTG) to maintain optimal temperatures, the card is designed to provide immersive gameplay for both casual and high demand gamers.

* Copyright© Nintendo. Nintendo Switch is a registered trademark of Nintendo.

Compatible Devices



Handheld
Game Console



Action
Camera



Drone



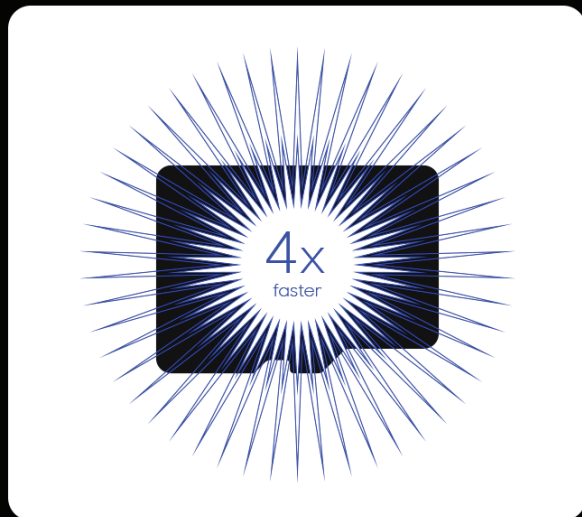
Laptop



Smartphone



Tablet



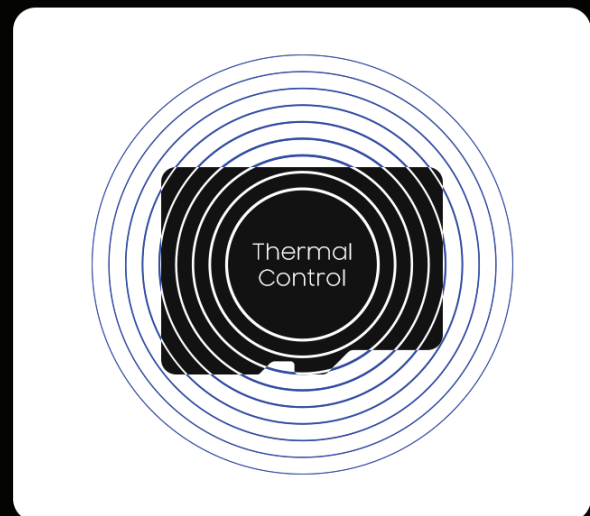
Speed that sparks your world

Get into your game in a flash. Featuring sequential read speeds of up to 800 MB/s—up to 4x faster than our UHS-I microSD cards*. This card may help minimize installation, update, and load times. Your DLCs and adventures are always closer to your gameplay.

* Based on internal testing with the P9 Express microSD card 512GB measured using a PCIe test board, compared to UHS-I microSD cards tested with PRO Ultimate microSD card 512GB and Samsung readers. Actual performance may vary depending on the host device, interface, usage conditions, and other factors.

Stay cool. Play non-stop

Enjoy uninterrupted gaming, even when the action heats up. Dynamic Thermal Guard (DTG) keeps your card at optimal temperatures, maintaining steady performance during high-demand games. Enjoy extended sessions with minimal interruptions and fully immersive gameplay.



6 Proof Durability



Temperature
proof



Magnet
proof



X-ray
proof



Drop
proof



Water
proof



Wearout
proof

¹Water proof: up to 1 meters depth, 3% NaCl salt water, 25°C, 72hrs

²Temperature proof: operating temperatures of 0°C to 45 °C; non-operating temperatures of -40°C to 85°C

³X-Ray proof: up to 100mGy, equal to airport X-ray machines.

⁴Magnet proof: up to 15,000 gauss (magnetic field equivalent of a high-field MRI), 30 secs.

⁵Drop proof: withstand drops up to 1 meters (appx. 3.3 feet), 10 cycles

⁶Wearout proof: up to 10,000 swipes

Specifications

	P9 Express 256GB (MB-MK256T)	P9 Express 512GB (MB-MK512T)
Product Type	microSDXC Memory Card	
Application	Compatible with devices that include a microSDXC slot, including Mobile phone, Tablet, Action Camera, Drone, Laptop, Gaming console, etc.	
Capacity	256GB (1GB=1Billion byte)	512GB (1GB=1Billion byte)
Interface	PCIe Gen3.0x1, NVMe 1.3, SD 7.1, UHS-I	
Sequential Read	SD Express 800 MB/s / UHS-I 90 MB/s	
Random Read(4KB, QD32)	SD Express 65K IOPS / UHS-I 2K IOPS	
Random Write(4KB, QD32)	SD Express 52K IOPS / UHS-I 2K IOPS	
Random Read(4KB, QD1)	SD Express 9K IOPS / UHS-I 2K IOPS	
Random Write(4KB, QD1)	SD Express 30K IOPS / UHS-I 2K IOPS	
HMB(Host Memory Buffer)	Support	
Speed Class	U3, V30, A1	
Magnetic	15,000 Gauss, 30 secs	
X-ray	100 mGy	
Water	1M depth, 3% NaCl, 25°C	
Humidity	40°C/93%, 85°C/85%	
Durability	10,000 mating cycles	
EMC	CE(UKCA)/FCC/VCCI/RCM	
Warranty	Limited 3-year warranty.	

