eMMC

eMCP

ePoP

DRAM Components

UFS

Industrial SSD

Design-In DRAM Modules

Industrial microSD

Industrial SD

Design-In Solid State Drives for system designers and builders

Kingston® offers a line of design-in SATA and NVMe solid-state drives created specifically for system designers and builders.

The line includes

- SATA 2.5-inch, mSATA, M.2 2242 and M.2 2280
- PCIe Gen. 4 NVMe: M.2 2280, M.2 2230

Design-In SSDs incorporate advanced controllers that automatically perform wear-levelling, garbage collection and other NAND Flash management features. They are a drop-in replacement for hard drives and deliver up to 20x greater performance as well as high reliability. Design-in SSDs incorporate next-generation 3D NAND Flash.

Key Benefits

System designers and builders rely on consistent storage products. Kingston offers the following benefits with the design-in SSD product line:

- Controlled BOM and firmware – Ensures there are no changes to key components after customer qualification
- PCN support – All generational changes and firmware updates are handled through a controlled and timed process
- Engineering support – Customers have direct contact with their regional Kingston Field Application Engineering teams to ensure a fast response to storage requirement questions and support requests
- Global support – Kingston can coordinate SSD deliveries with a customer's Original Design Manufacturers (ODMs) or Contract Manufacturers (CMs) in other regions of the world, if required
- Warranty[1] — For peace of mind, our design-In SSDs are backed by a limited three-year warranty and free technical support.

Request Information

Design-In SSD Part Specifications

2.5" SATA Rev. 3	Capacity	Description
OCP0S3128Q-A0	128GB	2.5" 7mm 128GB SSD (TLC)
OCP0S3256Q-A0	256GB	2.5" 7mm 256GB SSD (TLC)
OCP0S3512Q-A0	512GB	2.5" 7mm 512GB SSD (TLC)
OCP0S31024Q-A0	1TB	2.5" 7mm 1TB SSD (TLC)

mSATA SATA Rev. 3	Capacity	Description
OMSP0S3128Q-00	128GB	mSATA 128GB SSD (TLC)
OMSP0S3256Q-00	256GB	mSATA 256GB SSD (TLC)
OMSP0S3512Q-00	512GB	mSATA 512GB SSD (TLC)

M.2 SATA Rev. 3	Capacity	Description
OM4P0S3128Q-A0	128GB	M.2 2242 128GB SSD (TLC)
OM4P0S3256Q-A0	256GB	M.2 2242 256GB SSD (TLC)
OM4P0S3512Q-A0	512GB	M.2 2242 512GB SSD (TLC)
OM8P0S3128Q-A0	128GB	M.2 2280 128GB SSD (TLC)
OM8P0S3256Q-A0	256GB	M.2 2280 256GB SSD (TLC)
OM8P0S3512Q-A0	512GB	M.2 2280 512GB SSD (TLC)
OM8P0S31024Q-A0	1TB	M.2 2280 1TB SSD (TLC)

M.2 PCIe Gen 4 x4	Capacity	Description
OM8PGP4128P-A0	128GB	M.2 2280 128GB SSD (TLC)
OM8SEP4256Q-A0	256GB	M.2 2280 256GB SSD (TLC)
OM8SEP4512Q-A0	512GB	M.2 2280 512GB SSD (TLC)
OM8SEP41024Q-A0	1024GB	M.2 2280 1024GB SSD (TLC)
OM8SEP4512N-A0	512GB	M.2 2280 512GB SSD (QLC)
OM8SEP41024N-A0	1024GB	M.2 2280 1024GB SSD (QLC)
OM3PGP4128Q-A0	128GB	M.2 2230 128GB SSD (TLC)
OM3PGP4256Q-A0	256GB	M.2 2230 256GB SSD (TLC)
OM3PGP4512Q-A0	512GB	M.2 2230 512GB SSD (TLC)
OM3PGP41024P-A0	1024GB	M.2 2230 1024GB SSD (TLC)

Resources

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OM3PGP4256Q-A0 256GB M.2 2230 256GB SSD (TLC)
OM3PGP4512Q-A0 512GB M.2 2230 512GB SSD (TLC)
OM3PGP41024P-A0 1024GB M.2 2230 1024GB SSD (TLC)

Resources

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