

Q4'2014 DATABOOK

Rev 0.0





SLC

PRODUCT	TECH.	DENSITY	BLOCK SIZE	STACK	VCC/ORG	PKG.	AVAIL.	REMARK
H27U1G8F2B	4xnm class	1Gb	128KB	SDP	3.3v/X8	TSOP/FBGA	Now	-
H27S1G8F2B	4xnm class	1Gb	128KB	SDP	1.8v/X8	FBGA	Now	-
H27U1G8F2C	3xnm class	1Gb	128KB	SDP	3.3v/X8	TSOP/FBGA	Now	-
H27S1G8F2C	3xnm class	1Gb	128KB	SDP	1.8v/X8	FBGA	Now	-
H27U2G8F2C	4ynm class	2Gb	128KB	SDP	3.3v/X8	TSOP/FBGA	Now	-
H27S2G8F2C	4ynm class	2Gb	128KB	SDP	1.8v/X8	FBGA	Now	-
H27U2G8F2D	3xnm class	2Gb	128KB	SDP	3.3v/X8	TSOP	Now	-
H27U4G8F2D	4ynm class	4Gb	128KB	SDP	3.3v/X8	TSOP	Now	-
H27U4G8F2E	3xnm class	4Gb	128KB	SDP	3.3v/X8	TSOP	Now	-
H27U4G8F2F	2xnm class	4Gb	256KB	SDP	3.3v/X8	TSOP	Now	-
H27S4G8F2F	2xnm class	4Gb	256KB	SDP	1.8v/X8	TSOP	Now	-
H27U8G8G5D	4ynm class	8Gb	128KB	DDP	3.3v/X8	TSOP	Now	-

PRODUCT	TECH.	DENSITY	BLOCK SIZE	STACK	VCC/ORG	PKG.	AVAIL.	REMARK
H27UCG8T2A	2ynm class	64Gb	2MB	SDP	3.3v/X8	TSOP	Now	-
H27UCG8T2B	2ynm class	64Gb	4MB	SDP	3.3v/X8	TSOP/FBGA-132	Now	-
H27UBG8T2C	2ynm class	32Gb	2MB	SDP	3.3v/X8	TSOP	Now	-
H27UAG8T2C	2ynm class	16Gb	2MB	SDP	3.3v/X8	TSOP/PGD2	Now	-
H27QCGDT2B	2ynm class	64Gb	4MB	SDP	3.3v/x8	FBGA-132	Now	HS(ONFi3.0)
H27QDGDUDB	2ynm class	128Gb	4MB	DDP	3.3v/x8	FBGA-132	Now	HS(ONFi3.0)
H27QEGDVEB	2ynm class	256Gb	4MB	QDP	3.3v/x8	FBGA-132	Now	HS(ONFi3.0)
H27QFGDYEB	2ynm class	512Gb	4MB	ODP	3.3v/x8	FBGA-132	Now	HS(ONFi3.0)
H27UCG8T2E	1xnm class	64Gb	4MB	SDP	3.3v/x8	TSOP	Now	-
H27QCG8T2D	1xnm class	64Gb	2MB	SDP	3.3v/x8	FBGA-132	Now	HS(ONFi3.0)
H27QDG8UDD	1xnm class	128Gb	2MB	DDP	3.3v/x8	FBGA-132	Now	HS(ONFi3.0)
H27QEG8VED	1xnm class	256Gb	2MB	QDP	3.3v/x8	FBGA-132	Now	HS(ONFi3.0)
H27QFG8YED	1xnm class	512Gb	2MB	ODP	3.3v/x8	FBGA-132	Now	HS(ONFi3.0)
H27QCG8T2E	1xnm class	64Gb	4MB	SDP	3.3v/x8	FBGA-132	Now	HS(Toggle2.0)
H27QDG8UDE	1xnm class	128Gb	4MB	DDP	3.3v/x8	FBGA-132	Now	HS(Toggle2.0)
H27QEG8VEE	1xnm class	256Gb	4MB	QDP	3.3v/x8	FBGA-132	Now	HS(Toggle2.0)
H27QFG8YEE	1xnm class	512Gb	4MB	ODP	3.3v/x8	FBGA-132	Now	HS(Toggle2.0)
H27QCG8T2F	1xnm class	64Gb	4MB	SDP	3.3v/x8	FBGA-132	Q4'14	HS(Toggle2.0)
H27QDG8UDF	1xnm class	128Gb	4MB	DDP	3.3v/x8	FBGA-132	Q4'14	HS(Toggle2.0)
H27QEG8VEF	1xnm class	256Gb	4MB	QDP	3.3v/x8	FBGA-132	Q4'14	HS(Toggle2.0)
H27QFG8YEF	1xnm class	512Gb	4MB	ODP	3.3v/x8	FBGA-132	Q4'14	HS(Toggle2.0)
H27QDG8T2B	1xnm class	128Gb	4MB	SDP	3.3v/x8	FBGA-152	Now	HS(Toggle2.0)
H27QEG8UDB	1xnm class	256Gb	4MB	DDP	3.3v/x8	FBGA-152	Now	HS(Toggle2.0)
H27QFG8VEB	1xnm class	512Gb	4MB	QDP	3.3v/x8	FBGA-152	Now	HS(Toggle2.0)
H27Q1T8YEB	1xnm class	1024Gb	4MB	ODP	3.3v/x8	FBGA-152	Now	HS(Toggle2.0)
H27QEG8T2M	3D-V2 class	256Gb	9MB	SDP	3.3v/x8	FBGA-132	Q2'15	HS(Toggle2.0)
H27QFG8UDM	3D-V2 class	512Gb	9MB	DDP	3.3v/x8	FBGA-132	Q2'15	HS(Toggle2.0)
H27Q1T8VEM	3D-V2 class	1Tb	9MB	QDP	3.3v/x8	FBGA-132	Q2'15	HS(Toggle2.0)
H27Q2T8YEM	3D-V2 class	2Tb	9MB	ODP	3.3v/x8	FBGA-132	Q2'15	HS(Toggle2.0)
H27QCG8T2A	2ynm class	64Gb	2MB	SDP	3.3v/x8	FBGA-132	Now	HS(ONFi2.2)
H27QDG8UDA	2ynm class	128Gb	2MB	DDP	3.3v/x8	FBGA-132	Now	HS(ONFi2.2)
H27QEG8VEA	2ynm class	256Gb	2MB	QDP	3.3v/x8	FBGA-132	Now	HS(ONFi2.2)
H27QFG8YEA	2ynm class	512Gb	2MB	ODP	3.3v/x8	FBGA-132	Now	HS(ONFi2.2)



TLC

PRODUCT	TECH.	DENSITY	BLOCK SIZE	STACK	VCC/ORG	PKG.	AVAIL.	REMARK
H27QDG8M2M	1xnm class	128Gb	4MB	SDP	3.3v/X8	FBGA-132	Q4'14 (TBD)	HS(Toggle2.0)
H27QEG8NDM	1xnm class	256Gb	4MB	DDP	3.3v/X8	FBGA-132	Q4'14 (TBD)	HS(Toggle2.0)
H27QFG8PEM	1xnm class	512Gb	4MB	QDP	3.3v/X8	FBGA-132	Q4'14 (TBD)	HS(Toggle2.0)
H27Q1T8QEM	1xnm class	1Tb	4MB	ODP	3.3v/X8	FBGA-132	Q4'14 (TBD)	HS(Toggle2.0)



eMMC

PRODUCT	DENSITY	BASE COMPONENT			VCC/ORG	VERSION	AVAIL.	REMARK
		TECH.	DENSITY	STACK				
H26M21001FPR	2GB	2ynm class	16Gb	1	3.3V/x8/x4	MMC4.41	Now	11.5x13x0.8
H26M21001FRR	2GB	2ynm class	16Gb	1	3.3V/x8/x4	MMC4.41	Now	11x10x0.8
H26M31002GPR	4GB	2ynm class	32Gb	1	3.3V/x8/x4	MMC4.41	EOL	11.5x13x0.8
H26M31002GRR	4GB	2ynm class	32Gb	1	3.3V/x8/x4	MMC4.41	EOL	11x10x0.8
H26M31003GMR	4GB	2ynm class	32Gb	1	3.3V/x8/x4	MMC4.5	EOL	11.5x13x1.0
H26M31001HPR	4GB	1xnm Class	32Gb	1	3.3V/x8/x4	MMC4.5	Now	11.5x13x0.8
H26M42003GMR	8GB	2ynm class	32Gb	2	3.3V/x8/x4	MMC4.5	EOL	11.5x13x1.0
H26M41001HPR	8GB	1xnm Class	64Gb	1	3.3V/x8/x4	MMC4.5	EOL	11.5x13x0.8
H26M41103HPR	8GB	1xnm Class	64Gb	1	3.3V/x8/x4	MMC5.0	Now	11.5x13x0.8
H26M52003EQR	16GB	2ynm class	64Gb	2	3.3V/x8/x4	MMC4.5	EOL	12x16x1.0
H26M54003EMR	16GB	2ynm class	32Gb	4	3.3V/x8/x4	MMC4.5	EOL	11.5x13x1.0
H26M52001FMR	16GB	1xnm class	64Gb	2	3.3V/x8/x4	MMC4.5	EOL	11.5x13x1.0
H26M52001FPR	16GB	1xnm class	64Gb	2	3.3V/x8/x4	MMC5.0	EOL	11.5x13x0.8
H26M52103FPR	16GB	1xnm class	64Gb	2	3.3V/x8/x4	MMC5.0	Now	11.5x13x0.8
H26M52103FMR	16GB	1xnm class	64Gb	2	3.3V/x8/x4	MMC5.0	Now	11.5x13x1.0
H26M64003DQR	32GB	2ynm class	64Gb	4	3.3V/x8/x4	MMC 4.5	EOL	12x16x1.0
H26M64001EMR	32GB	1xnm class	64Gb	4	3.3V/x8/x4	MMC 4.5	EOL	11.5x13x1.0
H26M64103EMR	32GB	1xnm class	64Gb	4	3.3V/x8/x4	MMC 5.0	Now	11.5x13x1.0
H26M78003BFR	64GB	2ynm class	64Gb	8	3.3V/x8/x4	MMC 4.5	EOL	12x16x1.2
H26M78103CMR	64GB	1xnm class	64Gb	8	3.3V/x8/x4	MMC 5.0	EOL	11.5x13x1.0
H26M78103CCR	64GB	1xnm class	64Gb	8	3.3V/x8/x4	MMC 5.0	Now	11.5x13x1.2
H26M41208HPR	8GB	1xnm class	64Gb	1	3.3V/x8/x4	MMC 5.1	Q1'15	11.5x13x0.8
H26M52208FMR	16GB	1xnm class	64Gb	2	3.3V/x8/x4	MMC 5.1	Q1'15	11.5x13x0.8
H26M64208EMR	32GB	1xnm class	64Gb	4	3.3V/x8/x4	MMC 5.1	Q1'15	11.5x13x1.0
H26M78208CMR	64GB	1xnm class	64Gb	8	3.3V/x8/x4	MMC 5.1	Q1'15	11.5x13x1.0



E2NAND3.0

PRODUCT	TECH.	DENSITY	BLOCK SIZE	STACK	VCC/ORG	PKG.	AVAIL.	REMARK
H2JTCG8T21BMR	1xnm class	64Gb	4MB	1	3.0V,3.3V/x8	WLGA	Now	Non Shielded
H2JTDG8UD1BMR	1xnm class	128Gb	4MB	2	3.0V,3.3V/x8	WLGA	Now	Non Shielded
H2JTEG8VD1BMR	1xnm class	256Gb	4MB	4	3.0V,3.3V/x8	WLGA	Now	Non Shielded
H2JTFG8YD1BMR	1xnm class	512Gb	4MB	8	3.0V,3.3V/x8	WLGA	Now	Non Shielded
H2JTDG8UD1BMS	1xnm class	128Gb	4MB	2	3.0V,3.3V/x8	WLGA	Now	EMI Shielded
H2JTEG8VD1BMS	1xnm class	256Gb	4MB	4	3.0V,3.3V/x8	WLGA	Now	EMI Shielded
H2JTFG8YD1BMS	1xnm class	512Gb	4MB	8	3.0V,3.3V/x8	WLGA	Now	EMI Shielded



Standard 2.5" 7mm Form Factor

PRODUCT	DENSITY	NAND COMPONENT			Form Factor	I/F.	AVAIL.
		TECH.	DENSITY	STACK			
HFS064G32MNB-2200A	64GB	2ynm	64Gb	2	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS128G32MNB-2200A	128GB	2ynm	64Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS256G32MNB-2200A	256GB	2ynm	64Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS512G32MNB-2200A	512GB	2ynm	64Gb	8	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS250G32MNB-2000A	250GB	2ynm	64Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	EOL
HFS500G32MNB-2000A	500GB	2ynm	64Gb	8	STD. SSD 2.5"	SATA III (6Gbps)	EOL
HFS060G32MNB-2000A	60GB	2ynm	64Gb	2	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS120G32MNB-2000A	120GB	2ynm	64Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS240G32MNB-2000A	240GB	2ynm	64Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS480G32MNB-2000A	480GB	2ynm	64Gb	8	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS060G32MEB-2400A	60GB	2ynm	64Gb	2	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS120G32MEB-2400A	120GB	2ynm	64Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS240G32MEB-2400A	240GB	2ynm	64Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS400G32MEB-2420A	400GB	2ynm	64Gb	8	STD. SSD 2.5"	SATA III (6Gbps)	EOL
HFS480G32MEB-2400A	480GB	2ynm	64Gb	8	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS128G32MND-2200A	128GB	1xnm	128Gb	2	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS256G32MND-2200A	256GB	1xnm	128Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS512G32MND-2200A	512GB	1xnm	128Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS128G32MNC-2200A	128GB	1xnm	64Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Now
HFS128G32MND-3310A	128GB	1xnm	128Gb	2	STD. SSD 2.5"	SATA III (6Gbps)	Dec'14
HFS256G32MND-3310A	256GB	1xnm	128Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Dec'14
HFS512G32MND-3310A	512GB	1xnm	128Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Dec'14
HFS128G32MNC-3310A	128GB	1xnm	64Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Dec'14
HFS250G32TND-3300A	250GB	1xnm	128Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Dec'14
HFS500G32TND-3300A	500GB	1xnm	128Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Dec'14
HFS120G32MED-3400A	120GB	1xnm	128Gb	2	STD. SSD 2.5"	SATA III (6Gbps)	Dec'14
HFS240G32MED-3400A	240GB	1xnm	128Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Dec'14
HFS480G32MED-3400A	480GB	1xnm	128Gb	4	STD. SSD 2.5"	SATA III (6Gbps)	Dec'14
HFS960G32MED-3400A	960GB	1xnm	128Gb	8	STD. SSD 2.5"	SATA III (6Gbps)	Dec'14



mSATA

PRODUCT	DENSITY	NAND COMPONENT			Form Factor	I/F.	AVAIL.
		TECH.	DENSITY	STACK			
HFS032G3AMNB-2200A	32GB	2ynm	64Gb	2	mSATA	SATA III (6Gbps)	Now
HFS064G3AMNB-2200A	64GB	2ynm	64Gb	2	mSATA	SATA III (6Gbps)	Now
HFS128G3AMNB-2200A	128GB	2ynm	64Gb	4	mSATA	SATA III (6Gbps)	Now
HFS256G3AMNB-2200A	256GB	2ynm	64Gb	8	mSATA	SATA III (6Gbps)	Now
HFS128G3AMND-2200A	128GB	1xnm	128Gb	2	mSATA	SATA III (6Gbps)	Now
HFS256G3AMND-2200A	256GB	1xnm	128Gb	4	mSATA	SATA III (6Gbps)	Now
HFS128G3AMNC-2200A	128GB	1xnm	64Gb	4	mSATA	SATA III (6Gbps)	Now
HFS128G3AMND-3310A	128GB	1xnm	128Gb	2	mSATA	SATA III (6Gbps)	Dec'14
HFS256G3AMND-3310A	256GB	1xnm	128Gb	4	mSATA	SATA III (6Gbps)	Dec'14
HFS512G3AMND-3310A	512GB	1xnm	128Gb	8	mSATA	SATA III (6Gbps)	Dec'14
HFS128G3AMNC-3310A	128GB	1xnm	64Gb	4	mSATA	SATA III (6Gbps)	Dec'14



NGFF (M.2)

PRODUCT	DENSITY	NAND COMPONENT			Form Factor	I/F.	AVAIL.
		TECH.	DENSITY	STACK			
HFS032G34MNB-2200A	32GB	2ynm	64Gb	4	M.2 2242	SATA III (6Gbps)	Now
HFS128G36MNB-2300A	128GB	2ynm	64Gb	4	M.2 2260	SATA III (6Gbps)	Now
HFS256G36MNB-2300A	256GB	2ynm	64Gb	8	M.2 2260	SATA III (6Gbps)	Now
HFS064G38MNB-2200A	64GB	2ynm	64Gb	4	M.2 2280	SATA III (6Gbps)	Now
HFS128G38MNB-2200A	128GB	2ynm	64Gb	4	M.2 2280	SATA III (6Gbps)	Now
HFS256G38MNB-2200A	256GB	2ynm	64Gb	8	M.2 2280	SATA III (6Gbps)	Now
HFS128G39MND-2200A	128GB	1xnm	128Gb	4	M.2 2280 Single	SATA III (6Gbps)	Now
HFS256G39MND-2200A	256GB	1xnm	128Gb	8	M.2 2280 Single	SATA III (6Gbps)	Now
HFS128G39MNC-2200A	128GB	1xnm	64Gb	8	M.2 2280 Single	SATA III (6Gbps)	Now
HFS128G39MND-3310A	128GB	1xnm	128Gb	4	M.2 2280 Single	SATA III (6Gbps)	Dec'14
HFS256G39MND-3310A	256GB	1xnm	128Gb	8	M.2 2280 Single	SATA III (6Gbps)	Dec'14
HFS512G39MND-3310A	512GB	1xnm	128Gb	16	M.2 2280 Single	SATA III (6Gbps)	Dec'14
HFS128G39MNC-3310A	128GB	1xnm	64Gb	8	M.2 2280 Single	SATA III (6Gbps)	Dec'14
HFS256GA6MND-4210A	256GB	1xnm	128Gb	8	M.2 2260 Double	PCIe Gen2x2	Nov'14
HFS512GA6MND-4210A	512GB	1xnm	128Gb	16	M.2 2260 Double	PCIe Gen2x2	Dec'14
HFS128GB9MND-4210A	128GB	1xnm	128Gb	4	M.2 2280 Single	PCIe Gen2x4	Nov'14
HFS256GB9MND-4210A	256GB	1xnm	128Gb	8	M.2 2280 Single	PCIe Gen2x4	Nov'14
HFS512GB9MND-4210A	512GB	1xnm	128Gb	16	M.2 2280 Single	PCIe Gen2x4	Dec'14
HFS128GB9MNC-4210A	128GB	1xnm	64Gb	8	M.2 2280 Single	PCIe Gen2x4	Dec'14
HFS256GB9MNC-4210A	256GB	1xnm	64Gb	16	M.2 2280 Single	PCIe Gen2x4	Dec'14



Becoming the World's Best

With the industry's leading process technology and innovate design skills, SK hynix continuously introduces groundbreaking products that are high in performance and low in energy consumption giving its significant advantages over competition and securing global market leadership.