

Product Overview

DRAM

Product	Voltage	Density	Speed	Temp. (°C)	Package	Manufacturer
DDR-SDRAM SDR-SDRAM	2,5 V – 3,3 V	16 Mb – 512 Mb	133 MHz – 200 MHz	-40 bis 105	BGA, TSOP	ISSI
DDR2-RAM	1,8 V	256 Mb – 2 Gb	400 MHz – 800 MHz	-40 bis 105	BGA, WBGA	ISSI
DDR3-RAM	1,35 V – 1,5 V	1 Gb – 8 Gb	1066 MHz – 2133 MHz	-40 bis 105	BGA	ISSI
Mobile-DRAM LPDDR2	1,2 V – 1,8 V	512 Mb – 1 Gb	333 MHz – 533 MHz	-40 bis 105	BGA, PoP	ISSI
Mobile-DRAM MDDR	1,8 V	32 Mb – 2 Gb	133 MHz – 200 MHz	-40 bis 105	BGA, PoP	ISSI
Mobile-DRAM MSDR	1,8 V – 3,3 V	32 Mb – 2 Gb	133 MHz – 166 MHz	-40 bis 105	BGA	ISSI

SRAM

Product	Voltage	Density	Speed	Temp. (°C)	Package	Manufacturer
Asynchronous SRAM	1,3 V – 5 V	64 Kb – 64 Mb	70 ns – 8 ns	-55 bis 125	BGA, mTSOP, TSOP, SOP	CYPRESS, ISSI, RENESAS
nvSRAM	3 V – 5 V	64 Kb – 16 Mb	55 ns – 20 ns	-55 bis 125	CDIP, DFN, FBGA, LCC, SOIC, TSOP, WAFER	CYPRESS
Pseudo SRAM	1,7 V – 3,6 V	8 Mb – 64 Mb	70 ns – 55 ns	-40 bis 125	BGA, TSOP	ISSI
Quad SRAM, DDRII SRAM	1,3 V – 1,8 V	18 Mb – 144 Mb	250 MHz – 1066 MHz	-40 bis 125	FBGA	CYPRESS, ISSI, RENESAS
Synchronous SRAM	1,8 – 5 V	2 Mb – 72 Mb	117 MHz – 250 MHz	-40 bis 125	BGA, QFP	CYPRESS, ISSI

FRAM

Product	Voltage	Density	Temp. (°C)	Interface	Package	Manufacturer
FRAM	1,8 V – 5,5 V	4 Kb – 4 Mb	-40 bis 125	SPI, I ² C, parallel	DFN, EIAJ,FBGA, SOIC, SOP, SON TSOP, WL-CSP	CYPRESS, FUJITSU

Memory ICs

RFID (FRAM)

Product	Density	Input capacitance	Frequency Band	RF Interface	Manufacturer
RFID	0 B (128 bit EPC) – 8 KB	24 / 23 / 96 pF	HF 13.56MHz UHF 860MHz – 960MHz	ISO/IEC 15693 ISO/IEC 18000-6 / EPCglobal C1G2	FUJITSU

Flash ICs

Product	Voltage	Density	Speed	Temp. (°C)	Package	Manufacturer
HyperFlash	1,8 V – 3,6 V	128 Mb – 1 Gb	100 MHz – 166 MHz	-40 bis 125	BGA	CYPRESS, ISSI
Parallel NOR	1,8 V – 3,6 V	256 Kb – 2 Gb	20 ns – 110 ns	-40 bis 125	BGA, PLCC, TSOP, VSOP	CYPRESS, ISSI
Seriell NOR	1,8 V – 3,6 V	512 Kb – 1 Gb	33 MHz – 133 MHz	-40 bis 125	SOP, TSOP, TSSOP, WSON, VVSOP	CYPRESS, ISSI
SLC NAND / BENAND	1,7 V – 3,6 V	1 Gb – 128 Gb	25 ns – 45 ns	-40 bis 105	BGA, TSOP, SOP, WSON	CYPRESS, TOSHIBA

eMMC

Product	Voltage	Density	Temp. (°C)	Package	JEDEC	Manufacturer
eMMC	2,7 V – 3,6 V	4 GB – 128 GB	-40 bis 85	BGA, FBGA	4.5.1, 5.0, 5.1	CYPRESS, TOSHIBA

EEPROM

Product	Voltage	Density	Speed	Temp. (°C)	Package	Manufacturer
I ² C	1,7 V – 5,5 V	2 Kb – 1024 Kb	400 KHz – 2 MHz	-40 bis 125	DFN, SNT, SOP, TSOP, TMSOP	RENESAS *, Seiko Instruments
SPI	1,7 V – 5,5 V	2 Kb – 1024 Kb	1 MHz – 10 MHz	-40 bis 125	SOP, TSOP, TMSOP	RENESAS *, Seiko Instruments

* Please send us an individual request.

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