

Non-Volatile & Volatile

Memory Technologies

Rutronik is very pleased to offer you a comprehensive range of memory technologies from some of the world's leading suppliers. Whether it is standard commodity DRAM or leading edge technology like FRAM – we have the solution. In the tables shown technologies are split into "volatile" devices – data are lost when power is removed; fast access time – and "non-volatile" devices – data are retained without power; slow access speed. You can also see that products are divided between embedded devices, those which are soldered down, and removable "module devices". Whatever memory you are looking for Rutronik has the solution.

Volatile Memory

- SRAM: Low-power, fast and synchronous technologies from 64 Kbit to 144 Mbit
- NVRAM: from 64 Kbit to 16 Mbit
- SDRAM: a comprehensive range of technology from SDRAM through to DDR5 and mobile, low power devices from LPSDRAM to LPDDR4(X), LPDDR5X
- DDR Modules: a range from DDR through to DDR5
- Pseudo SRAM from 8 Mbit to 512 Mbit with ADMUX, QSPI or OPI interface

Non-Volatile Memory

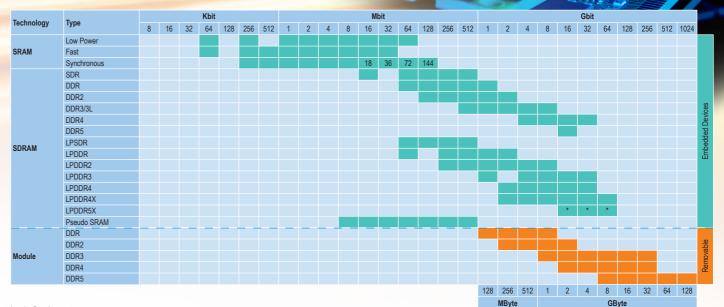
- EEPROM: with I2C, SPI and microwire interfaces, 1 Kbit through to 1 Mbit
- ReRam: with SPI interface
- FRAM: with I2C, SPI and parallel interfaces,
 4 Kbit to 16 Mbit
- NOR Flash: serial and parallel devices,
 1 Mbit to 4 Gbit
- NAND Flash: serial, parallel and with integrated ECC devices, 1 to 256 Gbit
- e·MMC: 2 GByte to 512 GByte in 2D MLC, PSLC and 3D TLC

Removable Devices

- SD and micro SD card: 128 MByte to 512 GByte
- Compact Flash: 128 MByte to 64 GByte
- Modules: USB, PATA and SATA
- Solid State Drive (SSD): 2.5", mSATA, M.2, U.2, U.3 and EDSFF
- USB Stick

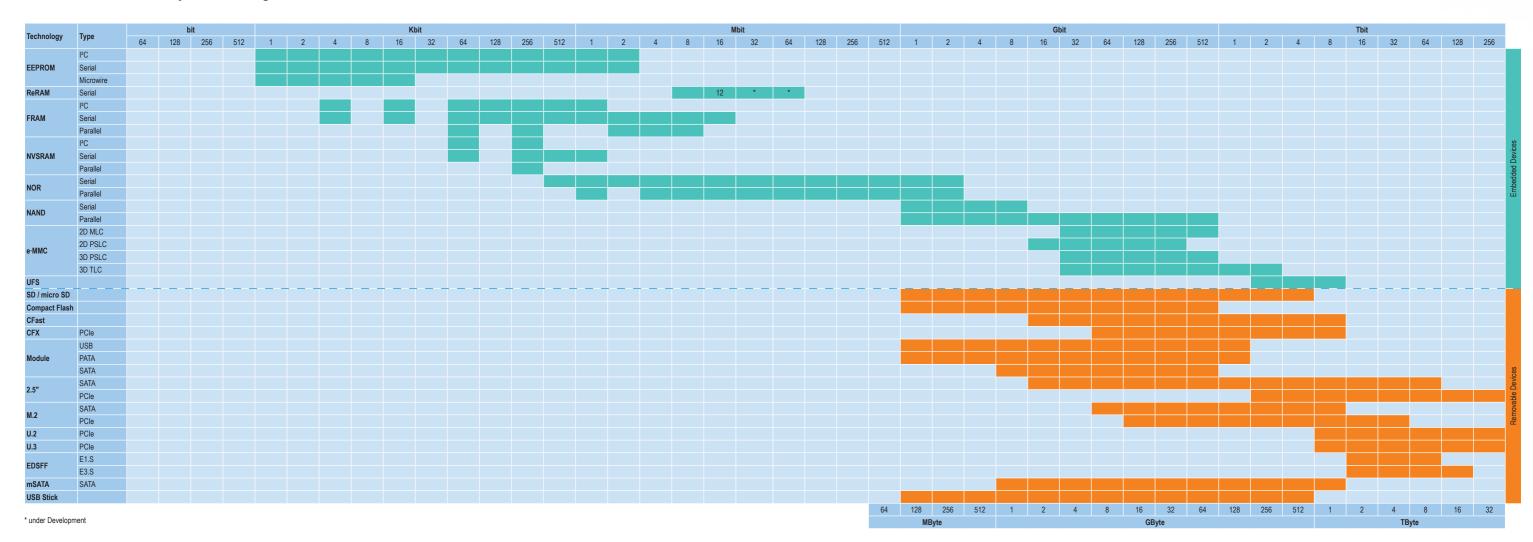


Volatile Memory Technologies



* under Development

Non-Volatile Memory Technologies





Linecard Memories



































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EPROM	Serial																	
eRAM	Serial																	
RAM	I2C / SPI / Parallel																	
Flash	Serial NOR																	
	Parallel NOR																	
	Serial NAND																	
	Parallel NAND																	
	e·MMC™																	
	UFS																	
	SD / micro SD																	
	Compact Flash / Cfast																	
	Flash Module (USB/PATA/SATA)																	
	Cfexpress																	
	SSD (2.5"/mSATA/M.2)																	
	EDSFF																	
	Add-in Card																	
	USB Sticks																	
SDRAM	SDR																	
	DDR																	
	DDR2																	
	DDR3/DDR3L																	
	DDR4																	
	DDR5																	
	LPSDR																	
	LPDDR																	
	LPDDR2																	
	LPDDR3																	
	LPDDR4																	
	LPDDR4X																	
	LPDDR5X												*					
	Pseudo SRAM																	
	MCP / eMCP																	
	SDRAM Module																	
	DDR Module																	
	DDR2 Module																	
	DDR3 Module																	
	DDR4 Module																	
	DDR5 Module																	
SRAM	Low Power																	
	Fast																	
	Synchronous																	
	NVRAM																	

* under Development

Contact

