



Long-Term Support
World Class Quality

Complete Memory Solutions
For the Embedded Market



A Broad **DRAM** Solution

DRAM	16Mb	32Mb	64Mb	128Mb	256Mb	512Mb	1Gb	2Gb	4Gb	8Gb	16Gb
EDO/FP (3.3V)	✓										
SDRAM (3.3V)	✓		✓	✓	✓	✓					
DDR				✓	✓	✓					
DDR2					✓	✓	✓	✓			
DDR3/DDR3L							✓ ECC	✓	✓ ECC	✓ ECC	✓
DDR4									✓	✓	✓
Mobile DRAM	16Mb	32Mb	64Mb	128Mb	256Mb	512Mb	1Gb	2Gb	4Gb	8Gb	16Gb
Mobile SDRAM (1.8V/2.5V/3.3V)		✓	✓	✓	✓	✓					
LPDDR		✓	✓	✓	✓	✓	✓	✓			
LPDDR 2					✓	✓	✓	✓	✓	✓	
LPDDR4 (1.1V), LPDDR4X (0.6V)								✓ ECC	✓ ECC	✓ ECC	✓
Specialty DRAM	288Mb	576Mb	1Gb	2Gb							
RLDRAM 2	✓	✓	✓								
RLDRAM 3		✓	✓	✓							

Complete **SRAM** Solution

Asynchronous SRAM/Pseudo SRAM	64Kb	256Kb	512Kb	1Mb	2Mb	3Mb	4Mb	8Mb	16Mb	32Mb	64Mb	
5V	✓	✓	✓	✓			✓	✓				
High Speed Asynchronous		✓	✓	✓ ECC	✓ ECC	✓	✓ ECC	✓ ECC	✓ ECC	✓		
Ultra Low Power		✓		✓	✓		✓ ECC	✓ ECC	✓			
Pseudo SRAM								✓	✓	✓	✓	
Low Pin Count	512Kb	1Mb	2Mb	4Mb	8Mb	16Mb	32Mb	64Mb	128Mb	256Mb	512Mb	1Gb
Serial SRAM	✓	✓	✓	✓								
Serial/QUAD RAM(SPI/QPI)					✓ ECC	✓ ECC	✓	✓	✓			
HyperRAM							✓	✓ ECC	✓ ECC	✓	✓	✓
OctalRAM							✓	✓ ECC	✓ ECC	✓	✓	✓
Muxed/Latch Async				✓	✓	✓						
Synchronous SRAM	2Mb	4Mb	8Mb	16Mb	36Mb	72Mb	144Mb					
Standard/No-Wait(ZBT) Synchronous	✓	✓ ECC	✓ ECC	✓	✓	✓						
QUAD/DDRII/QUADP/DD RIIP (Compatible to QDR- II™/QDR-II+™)				✓	✓	✓	✓					

Industrial & Automotive Temperature Grade, Long Term Support, Lead or RoHS & Halogen-free Compliance TSCA Compliance

STATUS ✓ Production ✓ Sampling ✓ In Development ✓ Under Consideration **ECC:** On-chip Error Correcting Code is an available option

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A Broad **NOR Flash and MCP** Solution

SPI/QSPI (Serial NOR)		512Kb	1Mb	2Mb	4Mb	8Mb	16Mb	32Mb	64Mb	128Mb	256Mb	512Mb	1Gb	2Gb
2.5/3V		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ ECC	✓ ECC	✓ ECC	✓ ECC
1.8V		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ ECC	✓ ECC	✓ ECC	✓ ECC

1.2V and Wide I/O 1.5V - 3.6V Serial Flash products under development

Twin Quad SPI (2 CE)					512Mb	
3V					✓	
1.8V						

xSPI (Octal Flash)	32Mb 64Mb	128Mb	256Mb	512Mb	1Gb	2Gb
3V	✓	✓	✓	✓	✓	✓
1.8V	✓	✓	✓	✓	✓	✓

Parallel Flash (NOR)	32Mb	64Mb	128Mb	256Mb		
3V w/ VIO = 1.65-3.6V	✓	✓	✓	✓		

MCP	128Mb+ 128Mb	128Mb+ 256Mb	256Mb+ 256Mb	256Mb+ 512Mb	512Mb+ 512Mb
OctalRAM + OctalFlash	✓	✓	✓	✓	✓
HyperRAM + OctalFlash	✓	✓	✓	✓	✓

A Broad **NAND and Managed NAND** Portfolio

SPI NAND	1Gb	2Gb	4Gb	8Gb		
3V/1.8V	✓ 1bit ECC	✓ 1bit ECC	✓ 8bit ECC	✓ 8bit ECC		
SLC NAND	1Gb	2Gb	4Gb	8Gb	16Gb	
3V/1.8V; (x8 & x16)	✓ 1 or 4bit ECC	✓ 1 or 4bit ECC	✓ 1 or 4 or 8bit ECC	✓ 8bit ECC	✓ 8bit ECC	
eMMC 5.0/5.1	8GB	16GB	32GB	64GB	128GB	
3V/1.8V; (100 & 153 BGA)	✓	✓	✓	✓	✓	
UFS 2.1/3.1				64GB	128GB	256GB
3V/1.8V; (153 BGA)				✓	✓	✓

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