Long-Term Solutions

SRAM • DRAM • Flash • Analog & Mixed Signal


Automotive


Communications


Industrial & Medical

A Broad DRAM Solution

DRAM	4M	16M	32M	64M	128M	256M	512M	1G	2G	4G	8G
3.3V, 5V EDO/FP	☑	☑									
3.3V SDRAM		☑		☑	☑	☑	☑				
2.5V DDR					☑	☑	☑				
1.8V DDR2						☑	☑	☑	☑		
1.35V & 1.5V DDR3/DDR3L								☑ ECC	☑ ECC	☑ ECC	☑
1.2V (2.5V) DDR4										☑	☑
Mobile DRAM											
1.8V/2.5V/3.3V Mobile SDRAM			☑	☑	☑	☑	☑				
1.8V Mobile DDR			☑	☑	☑	☑	☑	☑	☑		
1.2V (1.8V) LPDDR2						☑	☑	☑	☑		
1.2V (1.8V) LPDDR3								☑	☑	☑	
1.1V (1.8V) LPDDR4									☑	☑	☑

Industrial/Automotive Temperature, Long Term Support, Leaded/Lead Free

STATUS ☑ Production ☑ Roadmap ☑ Under Consideration ***ECC*** : Error Correcting Code is available option

A Broad Flash Solution

Serial Flash (NOR)	256K	512K	1M	2M	4M	8M	16M	32M	64M	128M	256M	512M	1G	2G
2.5/3V	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
1.8V		☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
1.2V Serial Flash Under Consideration														
Serial SLC NAND	**1Gb SPI**													
3V/1.8V; x8/ x16	☑ 4bit ECC													
Parallel Flash (ISA)	**512K**	**1M**	**4M**	**32M**	**64M**	**128M**	**256M**	**512M**	**1G**	**2G**	**4G**	**8G**		
3V	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑		
1.8V					☑	☑	☑	☑	☑					
HyperFlash™	**128M**	**256M**	**512M**	**1G**	**2G**									
2.5/3V	☑	☑	☑	☑	☑									
1.8V	☑	☑	☑	☑	☑									
SLC NAND	**1G**	**2G**	**4G**	**8G**										
3V/1.8V; x8/ x16	☑ 1 or 4bit ECC	☑ 1 or 4bit ECC	☑ 1 or 4bit ECC	☑ 4bit ECC										

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STATUS ☑ Production ☑ Roadmap ☑ Under Consideration

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Complete Memory Solution for the Embedded Market

MCP (Multi-Chip Package)

LPDDR2 DRAM

- Density: 256M, 512M, 1G, 2G
- VDD2 = 1.2V, VDDCA/VDDQ = 1.2V, VDD1 = 1.8V
- Clock Frequency Range : 10MHz to 533MHz
  - (Data rate range : 20Mbps to 1066Mbps per I/O)

Serial NOR Flash

- Density: 64M, 128M, 256M
- VDD = 1.8V
- 532 MHz equivalent QPI
- DTR (Dual Transfer Rate) up to 66MHz

Low Power • 168-ball PoP BGA package • Long-Term Support

Complete SRAM/High Speed Memory Solution

Asynchronous SRAMs	64K	256K	512K	1M	2M	3M	4M	8M	16M	32M	64M
5V	☑	☑	☑	☑			☑	☑			
High Speed Asynchronous		☑	☑	☑ ECC	☑ ECC	☑	☑ ECC	☑ ECC	☑ ECC	☑	
Ultra Low Power		☑		☑	☑		☑	☑	☑		
Pseudo SRAMs/ HyperRAM	**8M**	**16M**	**32M**	**64M**	**128M**	**256M**					
Pseudo SRAMS	☑	☑	☑	☑							
HyperRAM			☑	☑	☑	☑					
High Speed Memory	**2M**	**4M**	**9M**	**18M**	**36M**	**72M**	**144M**	**288M**	**576M**	**1G**	**2G**
Standard/No-Wait(ZBT) Synchronous	☑	☑ ECC	☑	☑	☑	☑					
QUAD (Compatible to QDR-II™)				☑	☑	☑	☑				
QUADP/DDRIIP (Compatible to QDR-II+™)				☑	☑	☑	☑				
RLDRAM2								☑	☑	☑	
RLDRAM3									☑	☑	☑
HP DRAM										☑	

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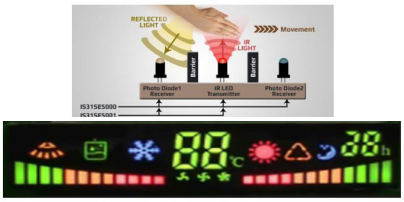
Analog & Mixed Signal Products

General & Automotive Lighting

DC/DC LED Drivers:
Buck, Boost, Buck/Boost, Boost with Current Sink
Linear Drivers:
Single, Dual, Quad, Eight Channel with special functions
Charge Pump and Boost Converters:
For Backlight & Flash Drivers
Applications:
Automotive, LCD Backlight, Illumination

FxLED & Sensors



RGB Drivers:
3, 6, 9, 10 channels
Multichannel:
16, 18, 28, 36 Channels
Matrix Drivers:
64, 128, 144 dot LED array display
Sensors:
Cap Touch, Proximity & Gesture
Applications:
Consumer, Automotive

Audio

Class AB, Class D , Class G Amplifiers
SPA: Speaker Amplifiers:
<3W to 20W
Analog or Digital (I2S) Inputs
HPA:
Headphone Amplifiers: <100mW
SPA +HPA- Combo
Applications:
Automotive, Consumer, Medical, Industrial

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