FLASH MEMORY ICS

PARALLEL NOR FLASH MEMORY DEVICES (CONT.)

		Memory	Supply		Price Each			
Mfg. Part No.	Packaging	Size	Voltage	Stock No.	1-9+			
CFI, Parallel, 4M x 8bit / 2M x 16bit								
S29JL032J70TFI310	TSOP-48	32Mbit	2.7V-3.6V	90R9335				
S29JL032J70TFI420	TSOP-48	32Mbit	2.7V-3.6V	90R9338				
CFI, Parallel, 8M x 8bit / 4I	VI x 16bit							
S29JL064J70TFI000	TSOP-48	64Mbit	2.7V-3.6V	90R9341				
● S29JL064J55TFI000	TSOP-48	64Mbit	2.7V-3.6V	90R9339				
Parallel, 1M x 8bit								
S29AL008J70BFI010	FPBGA-48	8Mbit	2.7V-3.6V	43P9761				
 S29AL008J55TFIR10 	TSOP-48	8Mbit	2.7V-3.6V	43P9760				
Parallel, 2M x 8bit								
 S29AL016J55TFIR10 TSOF 		16Mbit	2.7V-3.6V	55R7084	1.97			
Parallel, 4M x 8bit								
S29JL032J70TFI010	TSOP-48	32Mbit	2.7V-3.6V	90R9331	3.47			
 S29JL032J70TFI210 	TSOP-48	32Mbit	2.7V-3.6V	90R9333				
Parallel, 8M x 16bit								
 S29PL127J70BAI000 FPBGA-80 		128Mbit	2.7V-3.6V	70K5152				
Parallel, 8M x 8bit								
● S29JL064J70TFI003	TSOP-48	64Mbit	2.7V-3.6V	84W9353				

PIM 211875

PARALLEL NAND FLASH MEMORY DEVICES





- FEATURES

 100,000 Program / Erase cycles

 10 Year Data retention Open NAND Flash Interface (ONFI) 1.0 compliant
 Industrial plus temp range (-40°C to 105°C)

 - Densities: 1Gb to 16Gb
 Voltages: 3 V and 1.8 V options
 ndustrial temp range (-40°C to 85°C)
- NAND products add reliable, high density data storage to the flash product line. NAND product portfolio includes two standard product families supporting 1bit and 4 bit ECC options. They are available in 1Gb to 16Gb densities.

MPN is formed by a va	alid combination of the following:					
Device Family	S34MS: 1.8V Cypress SLC NAND Flash Memory for Embedded S34ML: Cypress SLC NAND Flash Memory for Embedded					
Density	01G = 1 Gb 02G = 2 Gb 04G = 4 Gb					
Technology	2 = Cypress NAND Revision 2 (32 nm)					
Bus Width	00 = ×8 NAND, single die 04 = ×16 NAND, single die					
Package	B = 63-Ball BGA G = 67-Ball BGA T = TSOP					
Materials Se	F = Lead (Pb)-free H = Lead (Pb)-free and Low Halogen					
Temperature Range	I = Industrial (.40°C to + 85°C) A = Industrial with AECQ-100 and GT Grade (.40 °C to +85 °C) V = Industrial Plus (.40°C to + 105°C) B = Industrial Plus with AECQ-100 and GT Grade (.40 °C to +105 °C)					
Model Number	00 = Standard Interface / ONFI (×8) 00 = Standard Interface (×16) 01 = ONFI (×16)					
Packing Type	0 = Tray 3 = 13" Tape and Reel					

		Memory	Supply		Price Each
Mfg. Part No.	Packaging	Size	Voltage	Stock No.	1-9+
Parallel					
 S34ML01G200TFI000 	TSOP-48	1024Mbit	2.7V-3.6V	55W7286	2.61
 S34ML04G200TFI000 	TSOP-48	2048Mbit	2.7V-3.6V	84W9358	5.70
Parallel, 128M x 8bit			,		
 S34MS01G104BHI010 	BGA-63	1Gbit	1.7V-1.95V	84W9362	
● S34ML01G100BHI000	BGA-63	1Gbit	2.7V-3.6V	45W4082	
● S34ML01G200BHI000	BGA-63	1Gbit	2.7V-3.6V	55W7284	
 S34ML01G100TFI000 	TSOP-48	1Gbit	2.7V-3.6V	05W4747	
 S34ML01G100TFI003 	TSOP-48	1Gbit	2.7V-3.6V	05W4748	
 S34ML08G101TFI000 	TSOP-48	8Gbit	1.7V-1.95V	96W2395	
 S34ML08G201TFI000 	TSOP-48	8Gbit	1.7V-1.95V	08X5963	
Parallel, 1G x 8bit					
 S34ML08G101BHI000 	BGA-63	8Gbit	2.7V-3.6V	55W7288	
 S34ML08G101TFI200 	TSOP-48	8Gbit	2.7V-3.6V	84W9360	
Parallel, 256M x 8bit					
 S34ML02G100TFI000 	TSOP-48	2048Mbit	2.7V-3.6V	05W4749	
Parallel, 32M x 16bit	-				
 S34MS04G204BHI010 	S34MS04G204BHI010 BGA-63		1.7V-1.95V	08X5968	
 S34MS04G204TFI010 	TSOP-48	4Gbit	1.7V-1.95V	08X5970	

PARALLEL NAND FLASH MEMORY DEVICES (CONT.)

		Memory	Supply		Price Each
Mfg. Part No.	Packaging	Size	Voltage	Stock No.	1-9+
Parallel, 512M x 8bit					
 S34ML04G100BHI000 	BGA-63	4Gbit	2.7V-3.6V	45W4084	
 S34ML04G200BHI000 	BGA-63	4Gbit	2.7V-3.6V	84W9357	5.98
 S34ML04G100TFI000 	TSOP-48	4096Mbit	2.7V-3.6V	05W4751	
Parallel, 64M x 16bit		•			
 S34MS02G104BHI010 	BGA-63	2Gbit	1.7V-1.95V	84W9363	
Parallel, 64M x 8bit					
 S34MS04G100BHI000 	BGA-63	4Gbit	1.7V-1.95V	08X5965	
 S34MS04G200BHI000 	BGA-63	4Gbit	1.7V-1.95V	08X5967	

PIM_211876

NON-VOLATILE MEMORY





Zero Power RAMs (ZPRs) are electronic memory elements to buffer machine data. They are used in older winder controls in order to store offset values, initializing data and operating data. ZEROPOWER® NYRAMs combine Low Power SRAMs and Automatic Battery Switchover and Write Protect circuits to implement Non-Volatile RAMs. They can be used just like standard SRAMs, but retain their contents

TIMEKEEPER NVRAMs are like ZEROPOWER® NVRAMs, but also include Non-Volatile Real-Time Clocks Automatic Battery Switchover and Write Protect circuits supply continuous power to the Low-Power SRAM and

RTC to keep time and retain the memory when power is removed.

The M48Z02/12 ZEROPOWER®RAM is a 2 K x 8 non-volatile static RAM which is pin and function compatible with the DS1220. A special 24-pin, 600 mil DIP CAPHAT™ package houses the M48Z02/12 silicon with a long-life lithium button cell to form a highly integrated battery-backed memory solution. The M48Z02/12 button cells to form a highly integrated battery-backed memory solution. The M48Z02/12 button cells to form a highly integrated battery-backed memory solution. has sufficient capacity and storage life to maintain data functionality for an accumulated time period of at least 10 years in the absence of power over commercial operating temperature range.

The M48Z08/18 ZEROPOWER®RAM is an 8 K x 8 non-volatile static RAM which is pin and function compatible

with the DS1225.The monolithic chip provides a highly integrated battery-backed memory solution. The M48Z08/18 is a non-volatile pin and function equivalent to any JEDEC standard 8 K x 8 SRAM. It also easily fits into many ROM, EPROM, and EEPROM sockets, providing the non-volatility of PROMs without any requirement for special write timing or limitations on the number of writes that can be performed.

		Memory	Access	Supply		Price Each
Mfg. Part No.	Packaging	Size	Time	Voltage	Stock No.	1-9+
Parallel, 2K x 8bit						
M48Z02-70PC1	DIP-24	16Kbit	70ns	4.75V-5.5V	89K1473	
● M48Z12-150PC1	DIP-24	16Kbit	150ns	4.5V-5.5V	89K1475	
● M48Z02-150PC1	DIP-24	16Kbit	150ns	4.75V-5.5V	89K0828	
Parallel, 32K x 8bit						
M48Z35Y-70PC1	DIP-28	256Kbit	70ns	4.5V-5.5V	89K1480	15.51
Parallel, 8K x 8bit						
• M48Z18-100PC1	DIP-28	64Kbit	100ns	4.5V-5.5V	89K1478	
• M48Z08-100PC1	DIP-28	64Kbit	100ns	4.75V-5.5V	89K1474	
DII.4.00700						

PIM_83729

ZIGBEE TRANSCEIVERS





Features:

- High Performance RF-CMOS 2.4 GHz
 Radio Transceiver Targeted for IEEE 802.15.4™,
 ZigBee®, 6LoWPAN, RF4CE, SP100, WirelessHART™ and ISM Applications
- Industry Leading Link Budget (104 dB)
- Ultra-Low Current Consumption Easy to Use Interface

- Special IEEE 802.15.4-2006 Hardware Support
- Industrial and Extend ed Temperature Range
- Compliant to IEEE 802.15.4-2006 and IEEE
- 802.15.4-2003 Compliant to EN 300 328/440, FCC-CFR-47 Part
- 15 ARIB STD-T66 RSS-210

Low Power 2.4 GHz Transceivers for ZigBee IEEE 802.15.4, 6LoWPAN, RF4CE, SP100, WirelessHART and ISM Applications

Suffix ZU - Temperature Range Industrial (-40° C to +85° C) Lead-free/Halogen-free Suffix ZF -Temperature Range Industrial (-40° C to +125° C) Lead-free/Halogen-free

Package Type - 32QN2, 32 lead 5.0x5.0 mm Body, 0.50 mm Pitch, Quad Flat No-lead Package (QFN) Sawn

	Supply	Data		RF/IF		Price Each		
Mfg. Part No.	Voltage	Rate	Sensitivity	Modulation	Stock No.	1-9+		
QFN-32 Pins, 2.405	QFN-32 Pins, 2.405 GHz to 2.48 GHz							
AT86RF231-ZF	1.8 V to 3.6 V	2Mbps	-101dBm	O-QPSK	68T4734			
 AT86RF231-ZFR 	1.8 V to 3.6 V	2Mbps	-101dBm	O-QPSK	68T4735			
 AT86RF231-ZU 	1.8 V to 3.6 V	2Mbps	-101dBm	0-QPSK	68T4736			
 AT86RF231-ZUR 	1.8 V to 3.6 V	2Mbps	-101dBm	O-QPSK	72T3087			
QFN-32 Pins, 2.48 GHz to 2.405 GHz								
• AT86RF232-ZX	1.8 V to 3.6 V	250Kbps	-100dBm	O-QPSK	92T0949			
DIM 407000								