1Mb – continued

	Mftr.	Pins	Description	VCC = 5V±
28F101	ST	32	1Mb (128K 8) FLASH memory - 120ns Access (TSOP)	10%
28F101	ST	32	1Mb (128K 8) FLASH memory - 150ns Access	10%
28F101	ST	32	1Mb (128K 8) FLASH memory - 150ns Access	10%
28F101	ST	32	1Mb (128K 8) FLASH memory - 150ns Access	10%

2Mb

28F020	AMD	32	2Mb (256K 8) FLASH memory - 90ns Access (PLCC)	10%
28F020	AMD	32	2Mb (256K 8) FLASH memory - 90ns Access	10%
28F020	AMD	32	2Mb (256K 8) FLASH memory - 120ns Access	10%
28F020	AMD	32	2Mb (256K 8) FLASH memory - 120ns Access	10%
28F020	AMD	32	2Mb (256K 8) FLASH memory - 150ns Access	10%
28F020	AMD	32	2Mb (256K 8) FLASH memory - 150ns Access	10%
28F020	AMD	32	2Mb (256K 8) FLASH memory - 150ns Access (IND TEMP)	10%
28F020	AMD	32	2Mb (256K 8) FLASH memory - 200ns Access (PLCC)	10%
28F020	AMD	32	2Mb (256K 8) FLASH memory - 200ns Access	10%
28F020	INTEL	32	2Mb (256K 8) FLASH memory - 70ns Access	10%
28F020	INTEL	32	2Mb (256K 8) FLASH memory - 150ns Access	10%
28F020	INTEL	32	2Mb (256K 8) FLASH memory - 150ns Access	10%
28F201	ST	32	2Mb (256K 8) FLASH memory - 70ns Access (PLCC)	10%
28F201	ST	32	2Mb (256K 8) FLASH memory - 90ns Access (PLCC)	10%
28F201	ST	32	2Mb (256K 8) FLASH memory - 120ns Access (PLCC)	10%
28F201	ST	32	2Mb (256K 8) FLASH memory - 120ns Access (TSOP)	10%

All types are 12V VPP and offer a minimum of 10,000 erase/program cycles.

Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
M28F101-120N1	SMD 302-5354†					
M28F101-150K1	SMD 493-417†					
M28F101-150P1	.493-405†					
M28F101-150P6	688-654†					
AM28F020-90JC	SMD 671-540					
AM28F020-90PC	671-551†					
AM28F020-120JC	SMD 787-413					
AM28F020-120PC	787-425†					
AM28F020-150JC	SMD 703-023					
AM28F020-150PC	703-047					
AM28F020-150PI	671-514					
AM28F020-200JC	SMD 671-526					
AM28F020-200PC	671-538					
N28F020-70	SMD .631-735†					
N28F020-150	SMD .296-181					
P28F020-150	.270-568					
M28F201-70K1	SMD 302-5378†					
M28F201-90K1	SMD 796-270†					
M28F201-120K1	SMD 796-281†					
M28F201-120N1	SMD 302-5366†					

† Available until stocks are exhausted

SerialFlash® Memory

SerialFlash® Memory combines the performance features of FLASH memory with the space efficiency associated with a serial interface. It has been designed to meet the low power needs of portable battery powered products. Features include:-

- Low cost
- 1 MHz data rate
- Block lock protection
- Small package
- 32 byte sector programming
- Endurance 100,000 cycles
- 1.8V to 3.6V read and program "univolt" power supply
- 2-wire interface
- Data retention 100 years
- Low standby current, 1µA
- SPI interface

SEM426

8K

	Pins	Description
25F008	8	8K (1K 8) Serial FLASH Memory - SPI interface

16K

24F016	8	16K (2K 8) Serial FLASH Memory - 2-wire interface
25F016	8	16K (2K 8) Serial FLASH Memory -SPI interface

32K

24F032	8	32K (4K 8) Serial FLASH Memory - 2-wire interface
25F032	8	32K (4K 8) Serial FLASH Memory - SPI interface

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
X25F008P	787-747†			
X24F016P	787-784			
X25F016P	.787-759			
X24F032P	.787-796†			
X25F032P	787-760			

† Available until stocks are exhausted

Boot Block FLASH Memory

INTEL

Intel's 28F001BX-T combines the cost-effectiveness of Intel standard FLASH memory with features that simplify write and allow block erase. These devices aid the system designer by combining the functions of several components into one, making blocked FLASH memory an innovative alternative to EPROM and EEPROM or battery-backed static RAM. Many new and existing designs can take advantage of the 28F001BX's integration of blocked architecture, automated electrical reprogramming and standard processor interface.

Additional features include one 8Kb Boot Block with write Lock Out, two 4Kb Parameter Blocks and one 112Kb Main Block. Available in Top Boot Sector or Bottom Boot Sector variations, DIL and PLCC packages.

SEM213

1Mb

	Mftr.	Pins	Description	Vcc = 5V±
28F001	INTEL	32	1Mb (128K x 8) Top Boot Block FLASH memory – 120ns acc	10%

Mftrs. List No.	Order Code	Price Each 1+	3+	10+
P28F001BX-T120	204-420			

Boot Block FLASH Memory

New

A range of Boot Block FLASH devices, these memory devices are capable of programming, erasing and reading with a single 5Volt supply.

They contain a 'boot block' section of memory which resides either at the top or bottom of memory depending on the device selected.

The organisation of the memory size is related to the size of the bus width selected, the selection of either 8 or 16 bit mode made by a logic signal to a device pin.

Memory blocks can be protected from programming or erasure to prevent accidental overwriting of data.

Features:

- Fast access time
- Fast programming time 10µs by byte/16µs by word typical
- Block, Multi-Block and Chip Erase
- Multi-block Protection/Temporary Unprotection modes
- 100,000 Program/Erase cycles
- Electronic Signature
- Single 5 Volt supply for Program/Erase/Read

SEM895

	Pins	Description	Vcc = 5V±
29F100	44	1Mb (128K 8, 64K 16) FLASH CMOS memory, Bottom Boot Block, 90ns acc. (SOIC)	10%
29F100	48	1Mb (128K 8, 64K 16) FLASH CMOS memory, Bottom Boot Block, 90ns acc. (TSOP)	10%
29F100	44	1Mb (128K 8, 64K 16) FLASH CMOS memory, Top Boot Block, 90ns acc. (SOIC)	10%
29F100	48	1Mb (128K 8, 64K 16) FLASH CMOS memory, Top Boot Block, 90ns acc. (TSOP)	10%
29F200	44	2Mb (256K 8, 128K 16) FLASH CMOS memory, Bottom Boot Block, 70ns acc. (SOIC)	10%
29F200	48	2Mb (256K 8, 128K 16) FLASH CMOS memory, Top Boot Block, 70ns acc. (TSOP)	10%
29F400	44	4Mb (512K 8, 256K 16) FLASH CMOS memory, Bottom Boot Block, 90ns acc. (SOIC)	10%
29F400	48	4Mb (512K 8, 256K 16) FLASH CMOS memory, Bottom Boot Block, 90ns acc. (TSOP)	10%
29F400	44	4Mb (512K 8, 256K 16) FLASH CMOS memory, Top Boot Block, 90ns acc. (SOIC)	10%
29F400	48	4Mb (512K 8, 256K 16) FLASH CMOS memory, Top Boot Block, 90ns acc. (TSOP)	10%
29F800	48	8Mb (1M 8, 512K 16) FLASH CMOS memory, Bottom Boot Block, 90ns acc. (TSOP)	10%
29F800	48	8Mb (1M 8, 512K 16) FLASH CMOS memory, Top Boot Block, 90ns acc. (TSOP)	10%

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
M29F100BB90M1	SMD 333-5021			
M29F100BB90N1	SMD 333-5010			
M29F100BT90M1	SMD 333-5045			
M29F100BT90N1	SMD 333-5033			
M29F200BB70M1	SMD 333-5069†			
M29F200BT70N1	SMD 333-5070†			
M29F400BB90M1	SMD 333-5124			
M29F400BB90N1	SMD 333-5112			
M29F400BT90M1	SMD 333-5148			
M29F400BT90N1	SMD 333-5136			
M29F800AB90N1	SMD 333-5161			
M29F800AT90N1	SMD 333-5173			

† Available until stocks are exhausted

Continued