

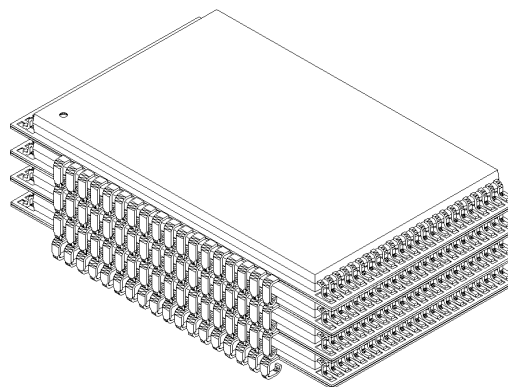
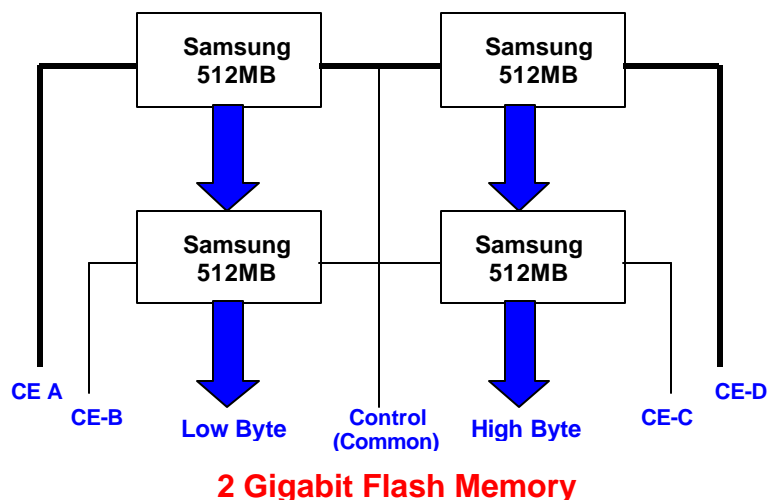
Irvine Sensors Corporation

Microelectronics Products Division

2 Gigabit (128M x 16) FLASH Memory Stack

Features:

- ❑ Low Profile, Same PCB area as a single device.
- ❑ Identical footprint for ¼, through 2 Gigabit Stacks.
- ❑ User configurable as x8 or x16
- ❑ Utilizes factory tested, state of the art Samsung 512Mbit TSOP's
- ❑ Highest density memory available today
- ❑ Command/Address/Data Multiplexed I/O port
- ❑ Hardware Data Protection
 - Program/Erase Lockout During Power Transitions
- ❑ Available in commercial or industrial temperature ranges
- ❑ Reliable CMOS Floating-Gate Technology
 - Endurance : 100K Program/Erase Cycles
 - Data Retention : 10 year



Dimensions 0.824"L x 0.532"W x 0.250"H
(+/- 0.005" on all dimensions)

- ❑ Low cost, economical for volume commercial applications
- ❑ Single power supply (2.7V – 3.6V) operation, no high programming voltage required.

General Description

Irvine Sensor's Microelectronics Products Division's 1 Gigabit flash memory provides the highest density, lowest cost memory products available today. This product provides for 2 Gigabit (256 Mbytes) of non-volatile FLASH memory in a footprint of less than ½ square inch. This product provides a cost-effective method to reduce PCB count and size in systems requiring large amounts of memory.

The device is configured as a 16 bit wide device and can be user configured as an 8 bit wide or 16 bit wide device. Separate chip enables are available for each chip in the stack. For 8 bit applications the data pins needing to be tied together are adjacent to each other to simplify the PCB design. Similarly, in 16 bit applications the CE's needing to be tied together are adjacent.

Base TSOP is Samsungs K9F1208UOM but other manufacturers can be substituted.

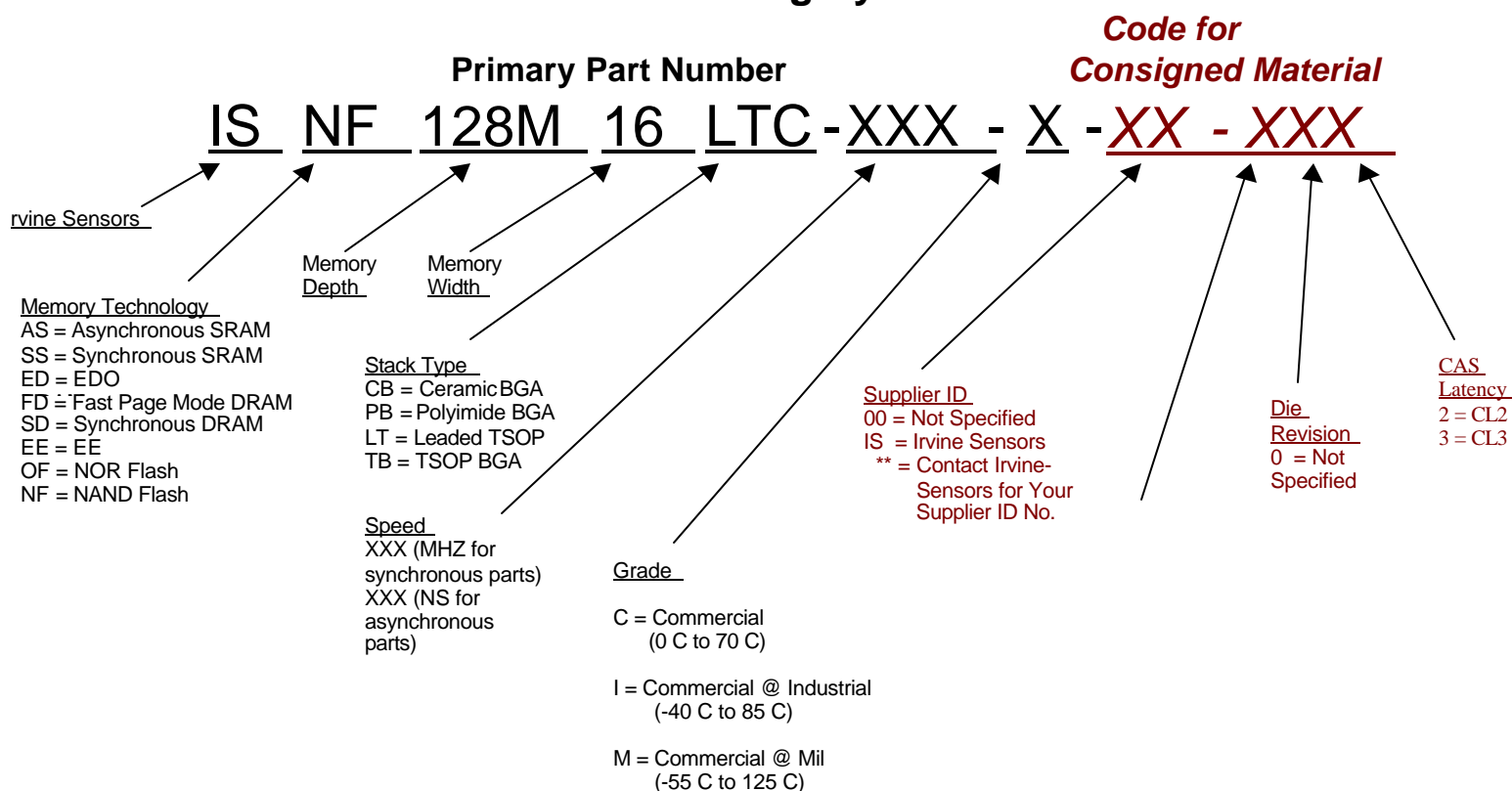
For more information contact MPD Sales:

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MPD Part Numbering System**Pin Numbering**

Pin #	Name	Name	Pin#
1	WP	SE	36
2	WE	R/B	35
3	ALE	RE	34
4	CLE	CEA	33
5	Vss	CEC	32
6	Vcc	CEB	31
7	N/C	CED	30
8	N/C	N/C	29
9	Vss	N/C	28
10	Vss	Vcc	27
11	D3	D4	26
12	D11	D12	25
13	D2	D5	24
14	D10	D13	23
15	D1	D6	22
16	D9	D14	21
17	D0	D7	20
18	D8	D15	19

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