

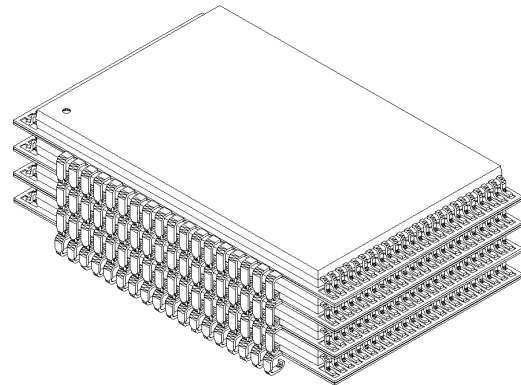
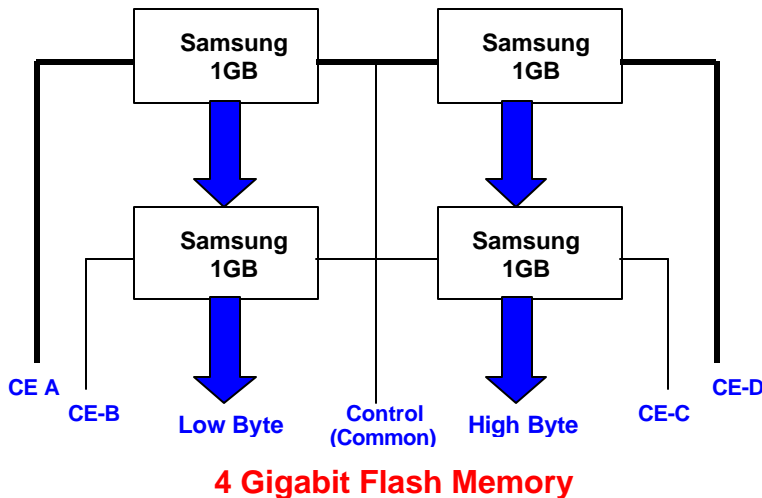
Irvine Sensors Corporation

Microelectronics Products Division

4 Gigabit (256M x 16) FLASH Memory Stack

Features:

- ❑ Low Profile, Same PCB area as a single device.
- ❑ Identical footprint for ¼, through 4 Gigabit Stacks.
- ❑ User configurable as x8 or x16
- ❑ Utilizes factory tested, state of the art Samsung 1Gbit 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 0.835"L x 0.545"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 4 Gigabit flash memory provides the highest density, lowest cost memory products available today. This product provides for 4 Gigabit (512 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 K9K1G08UOM but other manufacturers can be substituted.

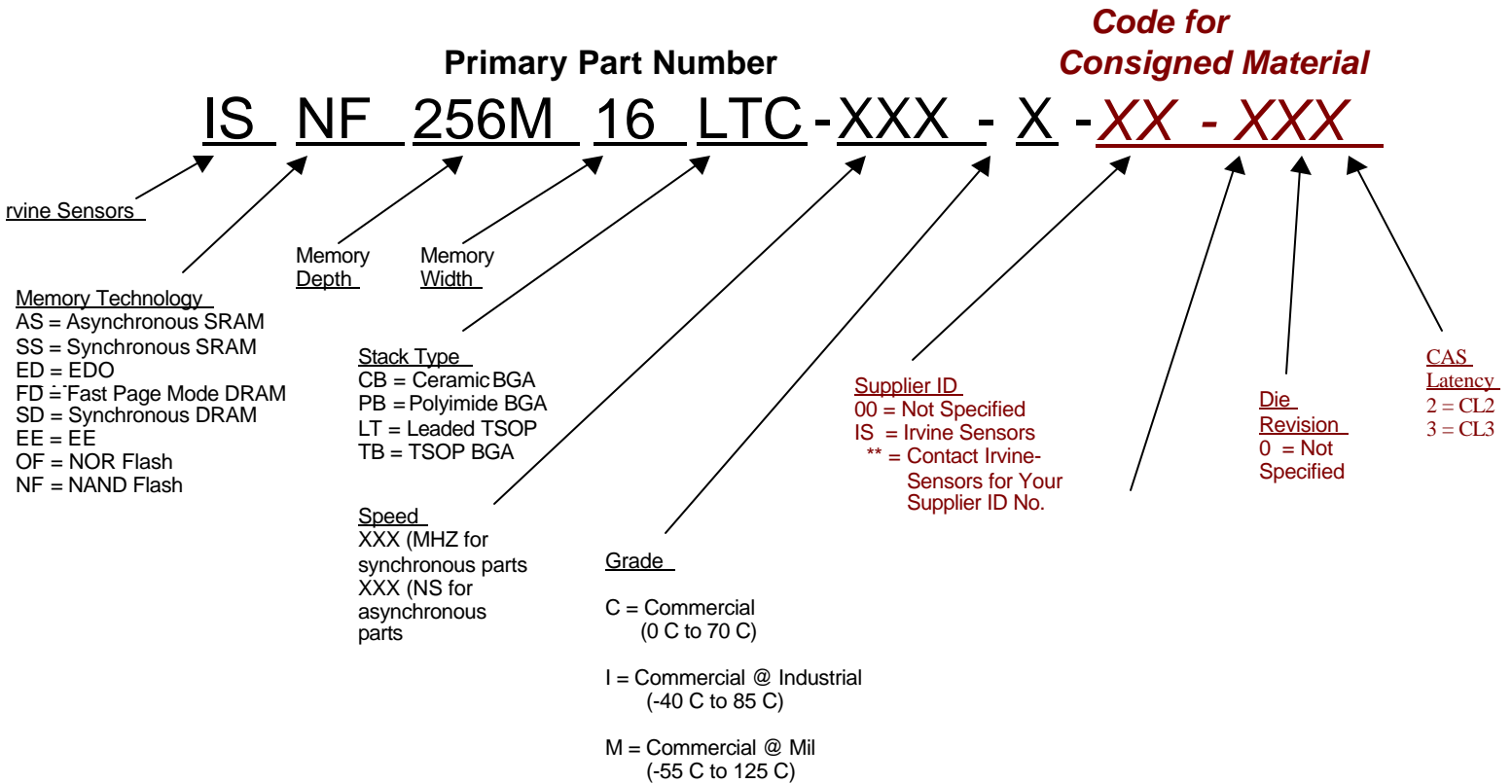
For more information contact MPD Sales:

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Microelectronics Products Division

MPD Part Numbering System



Pin Numbering

Pin #	Name
1	WP
2	WE
3	ALE
4	CLE
5	Vss
6	Vcc
7	N/C
8	N/C
9	Vss
10	Vss
11	D3
12	D11
13	D2
14	D10
15	D1
16	D9
17	D0
18	D8

Name	Pin#
N/C	36
R/B	35
RE	34
CEA	33
CEC	32
CEB	31
CED	30
N/C	29
N/C	28
Vcc	27
D4	26
D12	25
D5	24
D13	23
D6	22
D14	21
D7	20
D15	19

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