



Specification Comparison

8Mb FLASH

EN29SL800B VS SST39WF800A

Part No. :	EN29SL800B-90KIP
Issued date :	2007 / 04 / 24
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- **Sector Protection features:**

A hardware method of locking a sector to prevent any program or erase operations within that sector. Sectors can be locked in-system or via programming equipment Temporary Sector Unprotect feature allows code changes in previously locked sectors.

EN29SL800B : Yes

SST39WF800A: No

- **Top or bottom boot block configurations available**

Sector-structure of EN29SL800B are

One 16 Kbyte, two 8 Kbyte, one 32 Kbyte, and fifteen 64 Kbyte sectors (byte mode)

One 8 Kword, two 4 Kword, one 16 Kword, and fifteen 32 Kword sectors (word mode)

While SST39WF800A is of uniform 2KWord sectors.

- **Erase Suspend/Erase Resume**

Suspends an erase operation to read data from, or program data to, a sector that is not being erased, then resumes the erase operation.

EN29SL800B : Yes

SST39WF800A: No

- **Data# Polling and toggle bits**

- **Compatibility with JEDEC standards**

- **Low Vcc write inhibit**

EN29SL800B : Yes

SST39WF800A: Yes

a. Absolute Maximum Ratings

	EN29SL800B-90KIP	SST39WF800A-90-4C-C2QE
Storage Temperature	-65°C to +125°C	-65°C to +150°C
Ambient Temperature	-55°C to +125°C	-55°C to +125°C
Any Pin to Ground DC Voltage	-0.5 V to V _{CC} +0.5V	-0.5V to V _{CC} +0.5V
Voltage on A9 Pin to Ground	-0.5 V to 11.5 V	-0.5V to 11.0V
Output Short Circuit Current	200 mA	50mA
OPERATING RANGE	-40°C to +85°C	0°C to +70°C

**b. Electrical Characteristics**

	EN29SL800B-90KIP	SST39WF800A-90-4C-C2QE
Program/Erase Endurance	100 k cycles	10 k cycles
Data Retention	125 °C 20 years	100 years
Latch Up current	100 mA	100 mA
Read cycle time	Min 90 ns	Min 90 ns
Program time	Typ 7 us	Typ 28 us
Input Leakage Current	±3 uA	1 uA
Output Leakage Current	±3 uA	1 uA
Program/Erase Current	Max 30 mA	Max 20 mA

c. Pin Configuration

	EN29SL800B-90KIP	SST39WF800A-90-4C-C2QE
Address Inputs	A0-A18	A0-A18
Data I/O	DQ0-DQ15	DQ0-DQ15
Chip Enable	CE#	CE#
Output Enable	OE#	OE#
Write Enable	WE#	WE#
Power Supply	Vcc	V _{DD}
Ground	Vss	V _{SS}
Not connected to anything	NC	NC

d. Physical Dimensions(WLBGA)

	EN29SL800B-90KIP	SST39WF800A-90-4C-C2QE
Width	5.00 ± 0.1 mm	5.00 ± 0.08 mm
Length	6.00 ± 0.1 mm	6.00 ± 0.08 mm
Thickness	0.535 mm	0.52 mm