



Specification Comparison

16Mb FLASH

EN29LV160A VS SST39VF1601B

Part No. :	EN29LV160A
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1. Part No.

Eon : EN29LV160A
SST : SST39VF1601B

2. Basic Features:

The following features are identical with each other.

- 2.7 – 3.6 Read/Program/Erase Voltage.
- CFI (Common Flash Interface) compliant
- Hardware reset pin (RESET#)
- Data# Polling and toggle bits
- JEDEC standard compatible pin-out and command sets.
- Available package : 48-Lead TSOP (12x20mm) and 48-Lead FBGA (6x8mm).

3. Differences:

- Pin Configuration

	EN29LV160A	SST39VF1601B
Addresses Input	A0-A19	A0-A19
Data Inputs/Outputs	DQ0-DQ15	DQ0-DQ15
DQ15 (data input/output, word mode), A-1 (LSB address input, byte	DQ15 / A-1	N/A
Chip Enable	CE#	CE#
Output Enable	OE#	OE#
Write Enable	WE#	WE#
Hardware Reset Pin	RESET#	RST#
Ready/Busy Output	RY/BY#	N/A
Write Protect	N/A	WP#
Byte/Word Mode	BYTE#	N/A
Power Supply	V _{CC}	V _{DD}
Ground	V _{SS}	V _{SS}
Not Connected to anything	NC	NC



- **Word / Byte Configuration**

EN29LV160A : x8 and x16 capable

SST39VF1601B : only x16

- **Ready/Busy# pin (RY/BY#)**

Provides a hardware method of detecting program or erase cycle completion

EN29LV160A : Yes

SST39VF1601B : No

If you didn't use it with SST part, just ignore it.

- **Write Protect # pin (WP#)**

To protect the top/bottom boot block from Erase/Program operation when grounded.

EN29LV160A : No

SST39VF1601B : Yes

- **Manufacture ID and Device ID**

EN29LV160A

- Manufacturer ID : 7FH / 1CH
- Device ID (Top boot) : 22C4H (Word) / C4H (byte)
- Device ID (Bottom boot) : 2249H (Word) / 49H (byte)

Description	CE#	OE#	WE#	A19 to A12	A11 to A10	A9 ²	A8	A7	A6	A5 to A2	A1	A0	DQ8 to DQ15	DQ7 to DQ0
Manufacturer ID: Eon	L	L	H	X	X	V _D	L	X	L	X	L	L	X	7FH
							H ¹							1CH
Device ID (top boot block)	L	L	H	X	X	V _D	X	X	L	X	L	H	22h	C4H
							X							C4H
Device ID (bottom boot block)	L	L	H	X	X	V _D	X	X	L	X	L	H	22h	49H
							X							49H
Sector Protection Verification	L	L	H	SA	X	V _D	X	X	L	X	H	L	X	01h (Protected)
													X	00h (Unprotected)

Note:

1. A8=H is recommended for Manufacturing ID check. If a manufacturing ID is read with A8=L, the chip will output a configuration code 7Fh
2. A9 = VID is for HV A9 Autoselect mode only. A9 must be ≤ Vcc (CMOS logic level) for Command Autoselect Mode.



SST39VF1601B:

- Manufacturer ID : BFH
- Device ID (Bottom boot) : 234BH

PRODUCT IDENTIFICATION

	Address	Data
Manufacturer's ID	0000H	BFH
Device ID		
SST39VF1601	0001H	234BH
SST39VF1602	0001H	234AH
SST39VF3201	0001H	235BH
SST39VF3202	0001H	235AH
SST39VF6401	0001H	236BH
SST39VF6402	0001H	236AH

● Flexible Sector Architecture:

EN29LV160A :

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

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

SST39VF1601B :

- uniform 4Kbyte sectors.

The sector size of SST parts are different from Eon parts.

Software can be configured to fit both.

● Address input for command cycles :

EN29LV160A :

use address input 555H and 2AAH for command cycles.

Address bits A₁₀- A₀ are input for 555H and 2AAH, address bits A₁₉- A₁₁ are don't cares.

SST39VF1601B :

use address input 5555H and 2AAAH for command cycles.

Address bits A₁₄- A₀ are input for 5555H and 2AAAH, address bits A₁₉- A₁₅ are don't cares.



The address format in the command sequence for the SST39VF1601B can also be used for the EN29LV160A without any change.