

SENSYLINK Microelectronics

(CAS94126C) Low-Voltage Quadruple FET Bus Switch

CAS94126C is a 4-bit high-speed bus switch with separate output enable pins.

It is ideally used in Wired Networking, Datacenter and Building Automation.

1. Description

The CAS94126C quadruple FET bus switch features independent line switches. Each switch is disabled when the associated output-enable (OE) input is low.

This device is fully specified for partial-power-down applications using I_{off} . The I_{off} feature ensures that damaging current will not backflow through the device when it is powered down. The CAS94126C device has isolation during power off.

To ensure the high-impedance state during power up or power down, OE should be tied to GND through a pull down resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver. Available Package: SOP-14, TSSOP-14 package.

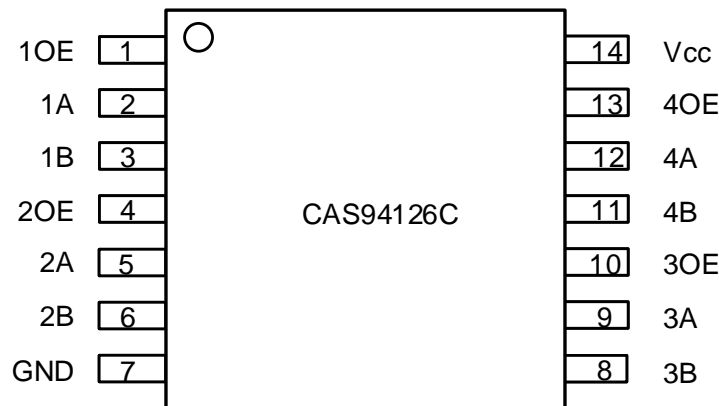
2. Features

- Standard 126-type pin-out
- Rail-to-rail switching on data I/O ports
- I_{off} supports partial-power-down mode operation
- Latch-up performance exceeds 100 mA per JESD 78, class II

3. Applications

- Datacenter and enterprise computing
- Broadband fixed access
- Building automation
- Wired networking
- Motor drives

4. Pin Configuration



SOP-14/TSSOP-14(Package Code M/MT)

5. Typical Application

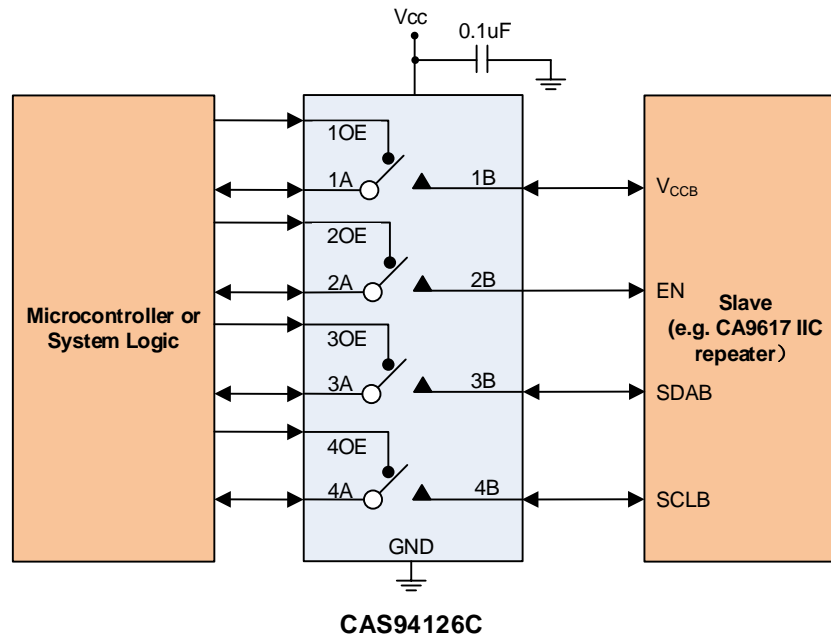


Figure 1 Typical Application of CAS94126C

6. Pin Description

Pin		Description
Name	NO	
1OE	1	Output 1 Enable, Active High; Control Input
1A	2	Switch 1 Input or Output
1B	3	Switch 1 Input or Output
2OE	4	Output 2 Enable, Active High; Control Input
2A	5	Switch 2 Input or Output
2B	6	Switch 2 Input or Output
GND	7	Ground
3B	8	Switch 3 Input or Output
3A	9	Switch 3 Input or Output
3OE	10	Output 3 Enable, Active High; Control Input
4B	11	Switch 4 Input or Output
4A	12	Switch 4 Input or Output
4OE	13	Output 4 Enable, Active High; Control Input
Vcc	14	Power Supply Input Pin, Using 0.1uF Low ESR Ceramic Capacitor to Ground

7. Function Block

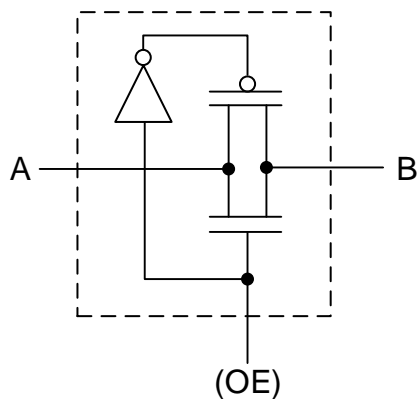
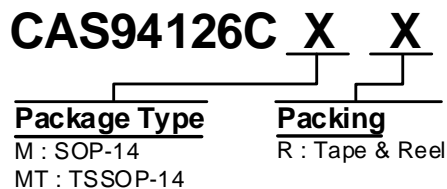


Figure 2 CAS94126C Function Block

8. Ordering Information



Order PN	Green ¹	Package	Marking ID ²	Packing	MPQ	Operation Temperature
CAS94126CMR	Halogen free	SOP-14	94126C YWWAXX	Tape & Reel	4,000	-40°C~+85°C
CAS94126CMTR	Halogen free	TSSOP-14	94126C YWWAXX	Tape & Reel	4,000	-40°C~+85°C

Notes

1. Based on ROHS Y2012 spec, Halogen free covers lead free. So most package types Sensylink offers only states halogen free, instead of lead free.

2. Marking ID includes 2 rows of characters. In general, the 1st row of characters are part number, and the 2nd row of characters are date code plus production information.



SENSYLINK Microelectronics Inc.

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