

SENSYLINK Microelectronics

(CAS92253C)

Low-Voltage Dual 1-of-4 FET Multiplexer/Demultiplexer

The CAS92253C device is a dual 1-of-4 high-speed FET multiplexer/demultiplexer. The low on-state resistance of the switch allows connections to be made with minimal propagation delay.

It is ideally used in Server, Wearable Device, IOT Device, Industrial Automation and Telecom Equipment.

Low-Voltage Dual 1-of-4 FET Multiplexer/Demultiplexer

1. Description

The CAS92253C device is a dual 1-of-4 high-speed FET multiplexer/demultiplexer. The low on-state resistance of the switch allows connections to be made with minimal propagation delay.

The select inputs (S0, S1) control the data flow. The FET multiplexers/demultiplexers are disabled when the associated output-enable (\overline{OE}) input is high. 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 off. The device has isolation during power off.

To ensure the high-impedance state during power up or power down, \overline{OE} should be tied to V_{CC} through a pull-up resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

Available Package: TSSOP-16, SSOP-16.

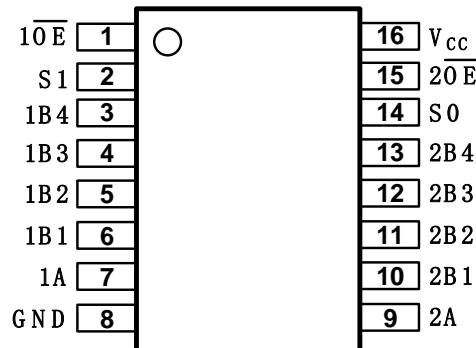
2. Features

- 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
- ESD Protection Exceeds JESD 22
 - ± 4000 V Human-Body Model (A114-A)
 - ± 200 V Machine Model (A115-A)

3. Applications

- Server
- Wearable Device
- IOT Device
- Industrial Automation
- Telecom Equipment

4. Pin Configurations



TSSOP-16/SSOP-16 (Package Code MT/MS)

Low-Voltage Dual 1-of-4 FET Multiplexer/Demultiplexer

5. Typical Application

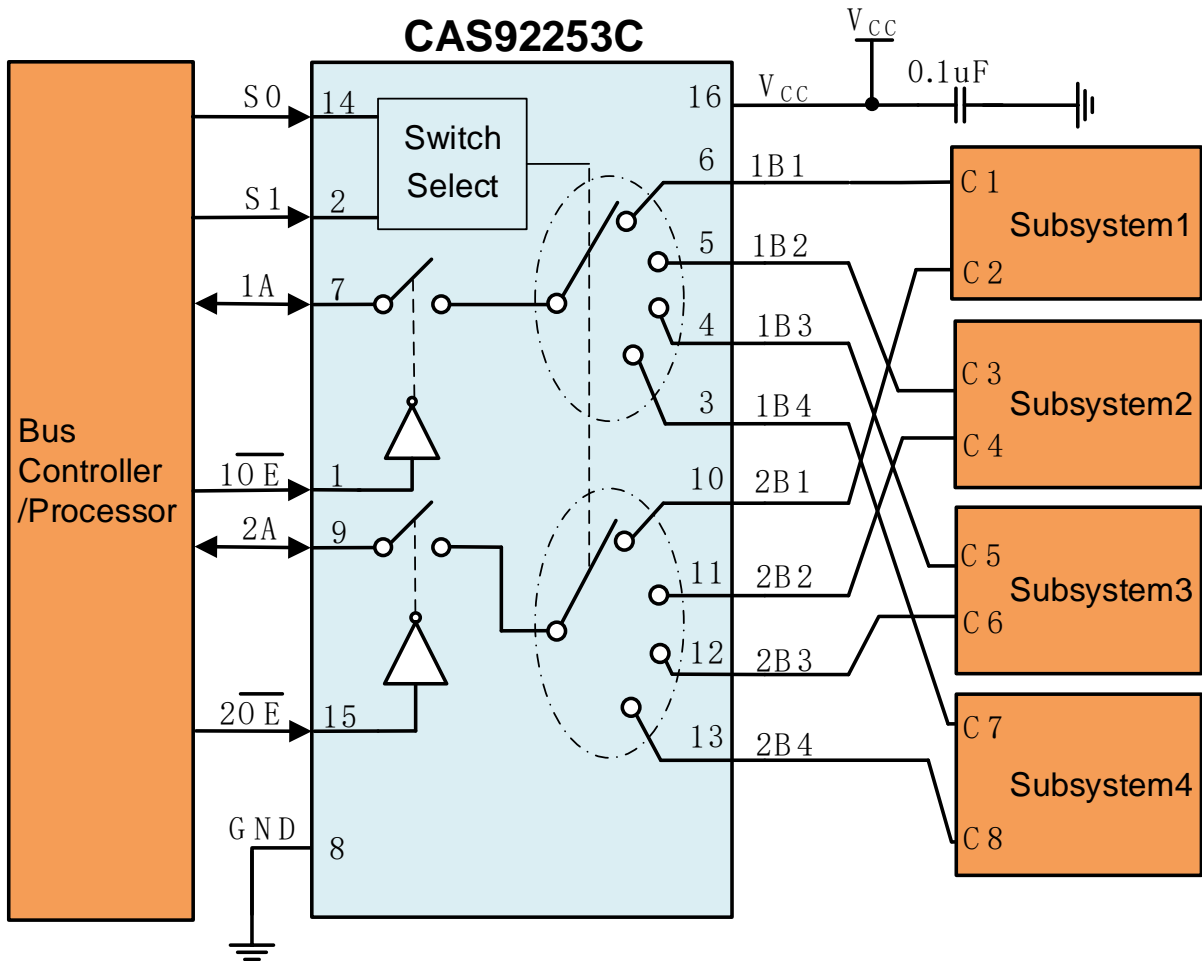
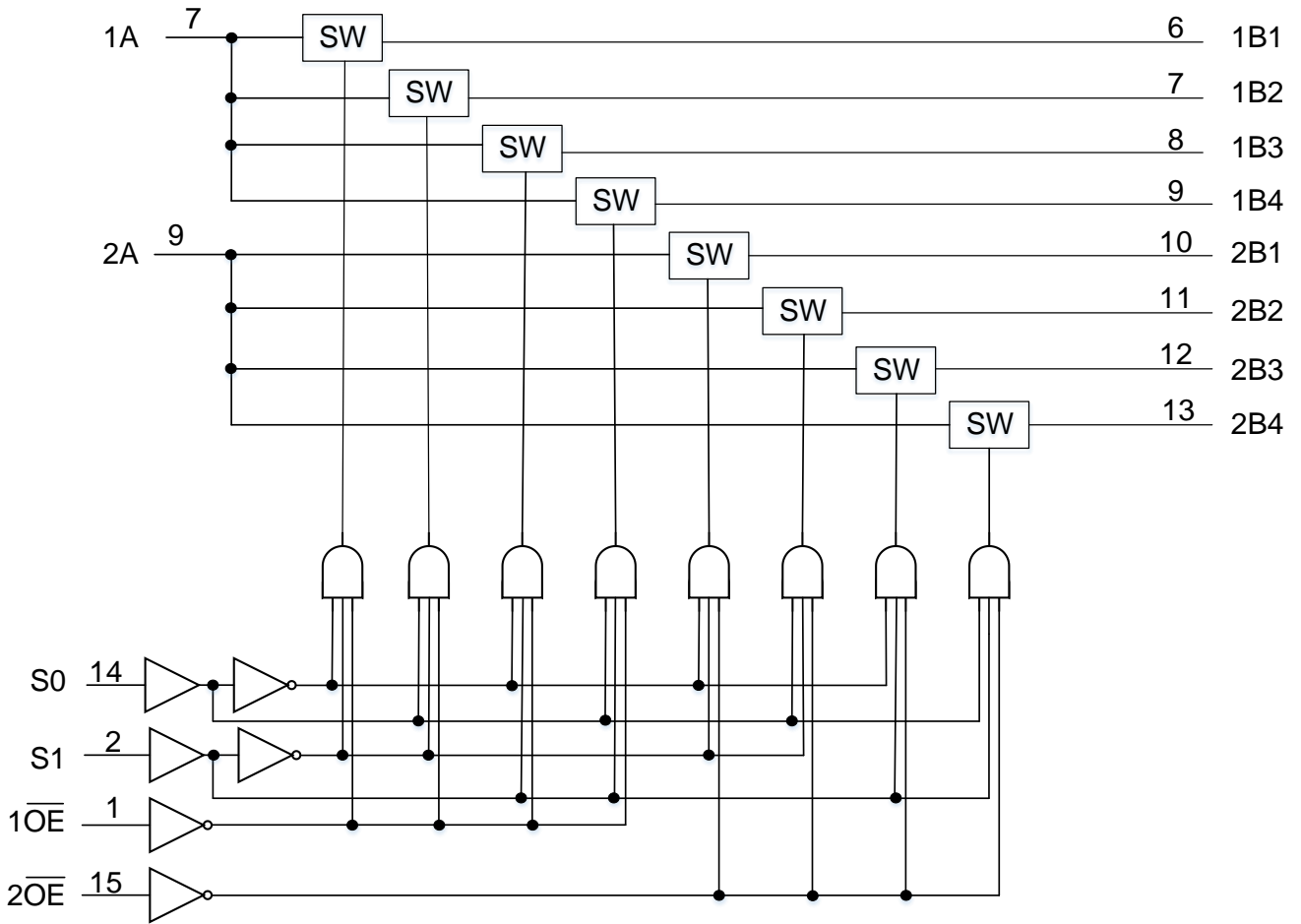
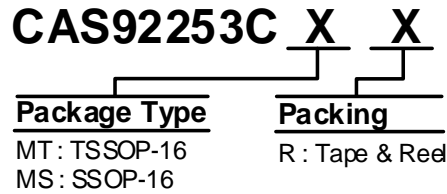


Figure 1. Typical Application of the CAS92253C

Low-Voltage Dual 1-of-4 FET Multiplexer/Demultiplexer
6. Pin Description

Pin Name	Pin No.	Description
$\overline{1OE}$	1	Output Enable 1 (Active-Low)
S1	2	Channel Select Input 1
1B4	3	Channel 1 I/O 4
1B3	4	Channel 1 I/O 3
1B2	5	Channel 1 I/O 2
1B1	6	Channel 1 I/O 1
1A	7	Channel 1 common O/I
GND	8	Ground
2A	9	Channel 2 common O/I
2B1	10	Channel 2 I/O 1
2B2	11	Channel 2 I/O 2
2B3	12	Channel 2 I/O 3
2B4	13	Channel 2 I/O 4
S0	14	Channel Select Input 0
$\overline{2OE}$	15	Output Enable 2 (Active-Low)
V _{CC}	16	Power

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7. Function Block

Figure 2. CAS92253C Function Block

Low-Voltage Dual 1-of-4 FET Multiplexer/Demultiplexer
8. Ordering Information


Order PN	Green ⁽¹⁾	Package	Marking ID ⁽²⁾	Packing	MPQ	Operation Temperature
CAS92253CMTR	Halogen free	TSSOP-16	92253C YWWAXX	Tape & Reel	4,000	-40°C~+125°C
CAS92253CMSR	Halogen free	SSOP-16	92253C YWWAXX	Tape & Reel	4,000	-40°C~+125°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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