

Bus Industrial Switches



Overview

A bus switch IC, or analog switch, is an array of high-speed, low-resistance CMOS switches used to transmit a group of signals called a signal bus. These ICs, including Renesas QuickSwitch ICs, perform the same basic function as a mechanical relay but without moving parts. Our comprehensive portfolio of bus switches deliver cost-effective, high-performance solutions tailored to your needs. Perform signal routing in personal electronics, enterprise and communication systems, industrial applications, and automotive applications. You can change your Change Notification (CN) preferences in My Nexperia. We stock a large selection of Bus Switches, including new and most popular products from the world's top manufacturers including: Renesas, Nexperia, Onsemi, Diodes Inc. electrical voltage) or logical (data) parameters. There are various types of interface depending on the level at which. A Bus Switch, also known as a Digital Switch is a semiconductor device that turns on and off an electrical connection. Bus Switches are PCB mount devices that act in the same way as a normal mechanical switch.

Article Content

What is an industrial switch? And what are the differences between it ...

July 18, 2025 What is an industrial switch? And what are the differences between it and an ordinary switch? In modern factories, robotic arms precisely grasp components, AGV trolleys shuttle along

What is a bus switch?

A bus switch is a semiconductor switch optimized for transmitting digital signals. The basic function of a bus switch is the same as that of a mechanical switch, using a

BUS DUCT AND PANELBOARD SWITCHES

Bus plugs, or bus duct switches, are used in manufacturing and industrial plants to distribute power in a convenient accessible way about the facility. Electrical bus

Digital Bus Switch ICs – Mouser

Digital Bus Switch ICs are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Digital Bus Switch ICs.

Industrial Network Solutions

Industrial Communication Protocols Future-proof Industrial Networking with Standard Ethernet and IP EtherNet/IP™ is an open industrial Ethernet network

High-Speed Bus Switches for System Efficiency | Frontgrade

Frontgrade's Bus Switches deliver advanced solutions for bus isolation and loading in high-reliability systems, optimizing performance and cost.

Bus Switches | Renesas

Explore bus switches with low on-resistance, high-speed switching, and mixed-supply support for multiplexing, demultiplexing, and signal routing applications.

The Complete Guide to Industrial Bus Cables

By Eileen Harvey Industrial bus cables serve as the backbone of these communication networks, facilitating seamless data transfer and ensuring the smooth operation of various machinery

CAN Bus Switches | Industrial Computer and Components from ICP IEI

CAN-Bus switches are specialized components in vehicles and industrial applications optimized for the networking and control of CAN-Bus-enabled devices. These switches enable efficient data

Logicbus Industrial Ethernet Switches

Logicbus Industrial Ethernet Switches provide a full range of Industrial Ethernet switches featuring enhanced security, industrial-grade reliability, easy management, and network redundancy. We have

Interfaces and bus systems: The right communication

As network connections in the industrial environment are frequently implemented in series from machine to machine, Industrial Ethernet networks are often set up in

Motor Bus Transfer Systems | Beckwith Electric

Motor Bus Transfer Motor bus transfer systems enhance industrial power reliability by ensuring seamless transitions to alternate power sources during failures, maintaining continuous operations.

Bus Switches | Farnell® Germany

Buy Bus Switches. Farnell® Germany offers fast quotes, same day dispatch, fast delivery, wide inventory, datasheets & technical support.

Digital Bus Switch Selection Guide (Rev. A)

Digital Bus Switch Introduction Texas Instruments (TI) has a long history in the digital bus switch market. TI was the first to introduce the 3.3-V low-voltage bus switch (CBTLV) and continues to make major

Industrial Ethernet Switches | TE Connectivity

Industrial Ethernet Switches with M12 Connectivity Our robust, EN50155 compliant Industrial Ethernet switches, featuring M12 connectivity, are designed to enable faster and more reliable Gigabit

Bus, Netzwerke & Kommunikation | Schneider Electric Deutschland

Unsere umfassende Auswahl an Feldbussystemen für industrielle Anwendungen, die eine effiziente Kommunikation und Datenübertragung in Ihrer Produktionsumgebung gewährleisten. Unsere

Bus switches | Nexperia

Whether for telecommunications or industrial control, our bus switch devices help you get the best performance from your system. They offer a choice of level

SCALANCE

SCALANCE network components form the basis of communication networks in manufacturing and process automation. Specially designed for use in industrial

Industrial Switch | Fiberroad

Industrial switches are the backbone of industrial automation and IoT. They may seem like small components, but they play a massive role in ensuring that

Bus Switches | Digital Switch | IC Switch | RS

Bus Switches are PCB mount devices that act in the same way as a normal mechanical switch. Unlike a mechanical switch, a Bus Switch has no moving parts, ensuring greater performance.

Industrial Switch: Understanding Industrial Ethernet

An industrial Ethernet switch is a type of network switch designed to operate in harsh industrial environments. Oil rigs, railways, manufacturing plants, and

All Industrial Switch Products

Industrial Switches Ruijie offers next-generation industrial Ethernet switches designed for harsh industrial environments, providing flexible full-gigabit access as well as 10GE uplink ports, and

Busbar Solutions for Industrial Automation

Rittal busbar system solutions provide safe and efficient power distribution in industrial applications, streamlining maintenance and optimizing your space.

Protocol & bus switches & muxes

Our portfolio offers multivendor signal routing solutions for interfaces including bus switching, USB, PCIe, I2C and I3C, SPI, MIPI, DisplayPort™, and HDMI. Perform signal routing in personal

Industrial-Switches | Automatisierungstechnik | Produkte | WAGO

Industrial Switches Das Switch-Portfolio von WAGO sorgt für die Skalierbarkeit Ihrer ETHERNET-Netzwerkinfrastruktur mit hervorragenden elektrischen und mechanischen Eigenschaften.

Switchboard Basics | ABB Electrification U.S.

ABB Switchboards are designed to integrate circuit breakers, fuses, metering, surge protection, and other electrical products to distribute and monitor power safely.

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