

Article Overview

The DS Agile H38 is a PRP-compliant Ethernet switch with optical ports supporting 100Base-Fx fiber connections for redundant, high-reliability networking.

Overview

The DS Agile H38 is a standalone Ethernet switch designed for industrial and critical network applications. It is compliant with IEC 62439-3 Clause-4 Parallel Redundancy Protocol (PRP), enabling seamless redundant communication between devices without network downtime . The switch also supports Precision Time Protocol (PTP) IEEE 1588 v2 for accurate time synchronization, which can be output via IRIG-B or NTP .

Optical Port Features

- o Fiber Support: The H38 switch provides PRP connections via fiber-optic ports, supporting both multi-mode (short distance) and single-mode (long distance) fibers .
- o Port Type: Optical ports use LC connectors and support 100Base-Fx speeds .
- o Redundancy: Optical ports are used for inter-switch connections to maintain high availability and reduce interference issues common with copper Ethernet links .

Copper Ports

- o The switch also includes three RJ45 copper ports supporting 10/100Base-Tx, with automatic detection of speed (10/100 Mbps) and duplex mode (half/full), .

Configuration and Management

- o The H38 can be configured via TELNET using a terminal emulator on a PC .
- o Commands allow control of PRP ports, including turning ports on/off and disabling transceivers .
- o The switch supports real-time clock synchronization and generates a one-pulse-per-second (PPS) signal for precise timing .

Mounting and Physical Design

- o DIN-rail mounting with a metal enclosure suitable for industrial environments .
- o Designed for robust operation with redundant power supply options and secure grounding requirements .

Applications

H38 port switch with optical port

The H38 switch is ideal for industrial automation, power grid communication, and other mission-critical networks where redundancy, precise timing, and optical connectivity are required. In summary, the DS Agile H38 combines PRP redundancy, optical fiber support, and precise time synchronization, making it a reliable choice for high-availability Ethernet networks with optical port requirements.

Optical switches developer Polatis has introduced an all-optical cross-connect that it asserts offers the highest port count available.

Products Data Center Switches Campus Network Switches AON Network Industrial Switches Data Center Switches Ultra-wideband,

L3 managed 10G uplink Ethernet core routing switch with 8*10/100/1000M RJ45 ports and 24*100/1000M SFP ports and 6*1/10G

All-optical Ethernet switches are a type of switch that provides optical uplink and downlink ports, making them an ideal

The PRP connection uses fiber-optic inter-switch connections. A multi-mode fiber-optic version is available

They provide redundant, inter-operable, data communication and precise local time synchronization to the IRIG-B port. This switch is

The DS Agile H38 is a new range of standalone Ethernet switches compliant with the IEC 62439-3 Clause-4 PRP protocol, providing

What is a 2 fiber port 8 LAN port fiber optic Ethernet switch? It is a hybrid Ethernet switch that integrates two SFP fiber ports (1.25

Hirschmann SPIDER II Series is a range of Unmanaged Fast Ethernet and Gigabit DIN-Rail mounting Industrial Ethernet switches

View online or download Alstom DS Agile H38 Series Installation And Operating Instructions Manual.

VERSITRON manufactures a wide range of fiber optic switches that provide links for your 10Base, 100Base, 1000Base Gigabit, and

The PROMesh U3 is an unmanaged 3-port industrial switch with media converter capabilities, passive cooling, and DIP switches.



H38 port switch with optical port

The H38 is an explosion proof version of the proven H25 encoder The H38 is UL certified for NEMA Class 4X and 6 (outdoor non

The DS Agile H38 is a range of standalone Ethernet switches compliant with the IEC 62439-3 Clause-4 PRP protocol, providing

Abstract: The optical switch is one of the most important components of an optical network. Microelectromechanical

Managed and unmanaged Layer 2 and Layer 3 fiber optic Ethernet switches. With 10G SFP+ fiber optic transceiver modules, they

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