

Calient Optical Switch



AI Overview

The Calient S320 Optical Circuit Switch is a high-performance, all-optical switch that enables flexible, low-latency, and protocol-agnostic connections between single-mode optical fibers. Overview The Calient S320 Optical Circuit Switch (OCS) is an all-optical (OOO) switch designed to establish, monitor, and dynamically change connections between single-mode optical fibers without converting optical signals to electrical form, ensuring minimal latency and jitter (30 ns) and high bandwidth support from 40 Gbps up to 400 Gbps and beyond. It is protocol-agnostic, making it compatible with any data rate or wavelength. Technology The S320 uses 3D MEMS (Micro-Electro-Mechanical Systems) optical switching technology. Tiny silicon mirrors direct light from input fibers to output fibers, controlled by precise electrostatic voltages. The switch is fully non-blocking, allowing any input port to connect to any output port, with switching times typically under 50 ms and full fabric configuration in less than 200 ms. Optical loss is low, typically under 1.5–2.0 dB, and the device does not require optical transceivers, reducing cost per bit. Features Port Capacity: 320 ports, scalable for smaller or larger configurations. Monitoring: Automated fiber management and power monitoring via Optical Monitoring Module (OMM) for diagnostics and optimization. Form Factor: Compact size (17.5" w x 12.2" h x 19" d) and lightweight (45 lbs / 20.5 kg), suitable for data centers and service provider environments. Reliability: Proven in over 750,000 optical connections globally, offering high reliability and low power consumption. Flexibility: Transparent to data speed and protocol, supporting any wavelength or signal type. Applications The S320 is widely used in: Data centers and cloud computing for dynamic optical path management. Service provider networks for high-capacity, low-latency switching. Government and research networks requiring precise optical routing. Optical test labs for sharing high-value optical equipment. Safety and Install...

Article Content

Optical Circuit Switch in Test Automation

Optical Circuit Switch in Test Automation Whitepaper | CALIENT Solution Brief The Challenge The Calient Automation Solution

CALIENT S320 GETTING STARTED MANUAL Pdf

View and Download CALIENT S320 getting started manual online. Optical Circuit Switch OCS. S320 switch pdf manual download.

CALIENT S SERIES QUICK START MANUAL Pdf

View and Download CALIENT S Series quick start manual online. Optical Circuit Switch WebGUI. S Series switch pdf manual download. Also for: S320, S160.

CALIENT Edge|640™ Optical Circuit Switch Offers Industry's Highest ...

CALIENT Technologies today announced the Edge|640™, a new Optical Circuit Switch (OCS) with 640 fiber-optic cross connections

Optical Circuit Switches, Calient – Signal Solutions

Calient's Optical Circuit Switch (OCS) – S320 is an all-optical (OOO) switch that establishes, monitors, and changes connections between single-mode optical

S320 PHOTONIC SWITCH

Based on field proven 3D Optical MEMS technology that CALIENT has deployed in more than 80,000 optical connections globally, the new S320 Photonic Switch delivers a sweet-spot of high reliability,

Optical Circuit Switch Systems – Signal Solutions

Circuit Optical Switches, Polatis Fiber Optical Switches, Leoni Matrix Optical Switches, DiCon Optical Circuit Switches, Calient

CALIENT S320 HARDWARE USER'S MANUAL Pdf

View and Download CALIENT S320 hardware user's manual online. Optical Circuit Switch (OCS). S320 switch pdf manual download.

Automation Optical Switches: CLT11003A2 | Keysight

The Calient S320 Optical Circuit Switch delivers automated, low-loss single-mode fiber switching for test lab environments using MEMS micromirror array

Calient S Series Optical Circuit Switch

CALIENT's S320 Optical Circuit Switch is a low-power, low-cost, and ultra-low-latency solution for these networks. The explosion of data driven by video,

CALIENT Optical Circuit Switch (OCS) TL1 Reference Guide

The CALIENT OCS TL1 Reference Guide is written for both network operations center personnel and field service personnel who configure, provision and monitor the equipment.

S320 PHOTONIC SWITCH

CALIENT Technologies is the global leader in Adaptive Photonic Switching with systems that build high performance all-optical networks for service provider, data center, cloud computing, and govern

S Series Optical Circuit Switch DOWNLOADS

CALIENT's S Series optical circuit switches (OCS) play a unique and important role in addressing these challenges, by enabling the dynamic interconnection and sharing of high value compute, network,

Calient S160 Optical Circuit Switch Manuals

Calient S160 Optical Circuit Switch Pdf User Manuals. View online or download Calient S160 Optical Circuit Switch Quick Start Manual

Calient S Series Optical Circuit Switch

Calient S Series Optical Circuit Switch The explosion of video and other Internet data is driving the demand for flexible, scalable, high-bandwidth networks. CALIENT's S320 Optical Circuit Switch is a

CALIENT | speziotech

S Series Optical Circuit Switch SDN at Light Speed CALIENT's new S Series Product Line is a family of scalable optical circuit switches with port densities ranging from 160 to 320 ports. Small form factor,

S-Series Optical Circuit Switch (OCS) Getting Started Guide

Every S-Series OCS ordered from CALIENT is loaded with the most current release of system software available at the time the switch is shipped. Miscellaneous: Type 12-24 rack-mounting screws (12),

S Series Optical Circuit Switch DOWNLOADS

The S Series Optical Circuit Switches provides the scalable and protocol independent software defined fiber interconnect and management infrastructure for a wide range of Data Center, Service Provider,

Calient.AI

Over the last 2 decades Calient has dramatically reduced optical switching costs, which implies huge savings for network service providers and data center operators. Arjun Gupta, Executive Chairman &

Calient Optical Layer 1 Switch Brochure

The S-Series Optical Layer 1 Switch, manufactured by CALIENT Technologies, is an all-optical switch that establishes, monitors, and changes

CALIENT'S OPTICAL CIRCUIT SWITCH

CALIENT's optical circuit switches (OCS) – S320 play a unique and important role in addressing these challenges by enabling the dynamic interconnection and sharing of high-value compute, network,

CALIENT 3D MEMS Optical Circuit Switching Demonstration

This video shows an animated demonstration of how CALIENT's 3D MEMS Optical Circuit Switching technology switches light from any input port to any output port without OEO conversion. The animation ...

Contact Us

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