

How to use the optical port of the access switch



Article Overview

To use a switch with optical port access, connect compatible fiber optic cables to the switch's SFP or optical ports, ensure proper module compatibility, and configure VLANs or network settings as required.

Physical Connection

- **Identify Optical Ports:** Look for ports labeled "Optical," "SFP," or "Mini-GBIC" on your switch. Some switches have built-in optical ports, while others require separate SFP modules .
- **Select Compatible Cables and Modules:** Determine the type of optical connector your switch supports (LC, SC, ST) and ensure the fiber optic cable matches the switch's speed and compatibility requirements .
- **Prepare the Cable:** Clean the fiber ends using a fiber optic cleaning kit or isopropyl alcohol to prevent signal loss .
- **Insert the Cable:** Remove protective caps from the ports and carefully insert the optical cable into the SFP module or port until it clicks securely .

Network Configuration

- **VLAN Setup:** Assign VLANs to separate traffic types, such as management, Internet, VOIP, and IPTV. For example, VLAN 01 for management, VLAN 10 for Internet, VLAN 20 for VOIP, and VLAN 30 for IPTV .
- **GPON Integration:** If connecting to a GPON network, ensure the switch communicates with the Optical Line Terminal (OLT) via the ONU/ONT. Configure T-Cont and DBA profiles to manage upstream bandwidth allocation

Article Content

Assign an Interface VLAN as an Access or Trunk Port on a Cisco

Trunk port — A port that is capable of carrying traffic for any or all the VLANs that are accessible by a specific switch.

8 Steps to configure your network switch

It only supports 802.1Q. Step 6: Configure access ports After already performing basic network switch configurations, it's time to

What Is an All-Optical Ethernet Switch?

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

Solved: Core Switch

Pretty simple, you just plug the optical transceiver into the switch port for that transceiver type. Of course, this assumes

Access port configuration (Cisco)

How to configure an access port on Cisco switch? An access port transmits packets on only one VLAN (traffic is not tagged on this

Installing an Optical Module

Install an optical module, and then connect optical fibers to the optical module. Do not insert an optical module with optical fibers to

Access Interface Connectivity

Access Interface Connectivity This workflow describes how to configure the Ethernet interfaces that connect to the end devices of a

VLAN Modes Explained - Optigo Networks

Without Trunk mode, that could require 4 separate Ethernet cables and use up 4 separate D-ports on the ONS-S8. However, if you

Configuring Access and Trunk Interfaces

Configuring Access and Trunk Interfaces Ethernet interfaces can be configured either as access ports or trunk ports. Trunks carry the

VLAN Access Ports

VLAN Access Ports - Cisco CCNA Tutorial In this Cisco CCNA training tutorial, you'll learn about VLAN Access ports and how to

What is the Access Switch?

In spite of the high port count, the access switch usually provides the lowest throughput per port. For example, most modern access

How to configure and assign a Cisco switch access port to a VLAN

When configuring an access port, you also want to define which VLAN the port belongs to. To configure and assign a switch access

View the Optical Module Status on a Switch through the Command

Once the transceiver and fiber optic cable are plugged in properly in the switch optical module, you should be able to view the current

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.gmarkconstruction.co.za>

Email: sales@gmarkconstruction.co.za

Phone: +31-6-15-38-72-94

Address: Herengracht 456, 1017 BS Amsterdam, Netherlands

This document is for informational purposes only. Specifications subject to change without notice.

