

# Core Switch Port Settings



## Article Overview

Core switch ports should be configured based on their role, typically as access or routed ports, with proper VLAN assignment, speed, duplex, and security settings.

### Port Modes

#### 1. Access Ports:

- Used to connect end devices like servers or workstations.
  - Assign the port to a specific VLAN using `switchport access vlan`.
  - Ensure the port is in access mode: `switchport mode access`.
- #### 2. Routed Ports (Layer 3 Ports):

- Used for inter-VLAN routing or connecting to other routers/switches.
  - Disable switching on the port: `no switchport`.
  - Assign an IP address directly to the port: `ip address`.
- #### 3. SVI (Switched Virtual Interface):

- Provides a virtual Layer 3 interface for a VLAN.
- Can aggregate bandwidth from multiple access ports in the same VLAN.
- Useful for connecting servers or multiple hosts without dedicating a physical routed port.

### Speed and Duplex Settings

- Configure port speed and duplex explicitly to avoid negotiation issues: `speed 1000` and `duplex full` for 1Gbps connections.
- For 10Gbps or higher, ensure the correct SFP or module is installed and supported...

## Article Content

Oct 20, 2025

### Core Switch Port Problem

Dear All, I have Core Switch 4506 and i have 2 vlan : vlan 2 : 192.168.1.2  
255.255.255.0 vlan 10 : 192.168.10.2

Aug 12, 2025

### What is Core Switch and How to Choose

What is a core switch? How do we choose the right core switch? Do you have such questions when you approach

Jul 22, 2026

### Adding a Core Switch with Layer 3

Proposed setup - 1 Unifi XG-16 EdgeSwitch will link to each 48 port poe via SFP+,  
each 48 port poe will link to the next

Jul 01, 2026

### What is a Core Switch | Functions and Difference over Normal Switch

What is a core switch and how it works? This article builds the basics of this kind of switch for the ones who don't

Jun 07, 2026

### Core Switch Explained: Key Functions and Benefits

Discover what a Core Switch is, its pivotal role in network architecture, and how it boosts performance and reliability in

May 30, 2026

### 8 Steps to configure your network switch

Learn how to setup a network switch with ease. Switches allow you to send and receive information efficiently and securely. Get

Jan 01, 2026

### Cisco Switch Port Guide: Types, Speeds & CLI Config

Cisco switch ports are categorized by their physical hardware interfaces (such as RJ45 copper, fiber-optic SFP

Mar 31, 2026

## Planning for a Core Switch Deployment

Hello All, I am planning for a core switch requirement is it should connect 2000 access ports in the distribution /

Apr 03, 2026

How to configure routed ports or uplinks?

Hi all, How do you configure redundant routed ports or uplinks from Distribution Layer to your Core Layer? like in the

May 18, 2026

How can I set up a console connection to Edgecore Open Networking

In this guide, you will learn how to connect open networking switches using an RS232-RJ45 cable along with a USB

Jan 30, 2026

How to Configure a Cisco Switch in 10 Steps

The process of configuring a Cisco switch involves several key steps, including setting up basic switch parameters,

Jan 08, 2026

Mastering Switch Port Configuration: Avoiding Common Pitfalls in ...

Optimize enterprise switch deployments by mastering port configuration. Learn to prevent speed mismatches, VLAN

Oct 17, 2025

SME Network Solution Typical Configuration Examples

"Gateway + Core Switch + Access Switch + AP + AR180" Networking: Huawei eKit Cloud Management "Gateway + Core Switch +

Apr 20, 2026

ECS2100 Series CLI Reference Guide

ECS2100-10PE Gigabit Ethernet Switch Web-smart Pro Gigabit Ethernet Switch with 8 10/100/1000BASE-T (RJ-45) 802.3 af/at PoE

Nov 01, 2025

How to Configure a Cisco Switch (step by step)

Let's configure two access ports, G0/0 on VLAN 10 and G0/1 on VLAN 20, on the CORE switch. Remember these

Dec 12, 2025

Google Gemini

Meet Gemini, Google's AI assistant. Get help with writing, planning, brainstorming, and more. Experience

Nov 22, 2025

Common Pitfalls in Switch Port Configuration and How to Avoid Them

Discover common mistakes in switch port configuration and learn best practices to avoid them for a more reliable,

Oct 04, 2025

ECS2100 Series CLI Reference Guide

The switch's HTTP web agent allows you to configure switch parameters, monitor port connections, and display statistics using a

Sep 14, 2025

What Is a Core Switch in Networking?

Fixed Configuration Switches: Offer a *fixed* number of ports *and* limited expansion options. Modular

Jan 16, 2026

Features and Applications of Core Switches

Ruijie Reyee's network switch products, including high-quality Core Switch models, are widely used across multiple

Nov 11, 2025

routing at the distributionCore switch

For Core 2 Couple of things I thought of: 1- convert the Routed ports to SVI ports and propagate them across to the

Sep 25, 2025

ECS5520 Series CLI Reference Guide

Connecting to the Switch 47 Configuration Options 47 Connecting to the Console Port 48 Logging Onto the Command Line Interface

Oct 22, 2025

Core Switch

Core switches are defined as high-capacity switches located at the top of a cloud data center network, connecting aggregation

May 26, 2026

Configuring Cisco Port Channels: Step-by-Step Tutorial

Setting up port channels on Cisco switches is an essential skill for network engineers to optimize the performance and

## Contact Us

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

Website: <https://greatpremiersolutions.co.za>

Email: [sales@greatpremiersolutions.co.za](mailto:sales@greatpremiersolutions.co.za)

Phone: +27 82 914 3675

Address: Unit 5, Silicon Heights, 22 Electron Avenue, Cape Town, 8001, South Africa

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

