

What cable should be used for the aggregation switch AC



Article Overview

For connecting an AC to an aggregation switch, SFP+ or equivalent high-speed cables such as DAC, ACC, or Cat6a/Cat7 Ethernet are recommended depending on port type and distance.

Recommended Cable Types

- SFP+ or SFP28 Modules
- Use SFP+ (10G) or SFP28 (25G) transceivers if the aggregation switch supports these ports. These modules provide high throughput and low latency, ideal for uplinks between ACs and aggregation switches .
- Direct Attach Copper (DAC)
- DAC cables are passive copper cables suitable for short distances (≤ 5 meters). They offer ultra-low latency, zero power consumption, and cost efficiency, making them ideal for in-rack connections between ACs and aggregation switches .
- Active Copper Cable (ACC)
- ACC cables include a redriver chip to extend signal integrity over longer distances than DAC. They are suitable for connections slightly beyond DAC limits while maintaining high-speed performance .
- High-Quality Ethernet Cables
- For 10G RJ45 ports, use Cat6a or Cat7 twisted-pair cables. These support 10G speeds over copper and are suitable for distances up to 100 meters, providing flexi...

Article Content

What Is an Aggregation Switch and How to Choose?

An aggregation switch is a network device that consolidates traffic from multiple access switches, wireless access

What is an Aggregation Switch?

The aggregation switch is located in the middle of the network architecture, which is

In-depth analysis: What is an aggregation switch?

In many network constructions, we have all heard of switches. So do you really understand

Link Aggregation, LAG, LACP and MLAG in 2026: Design, Best

Network-Switch can help you pick the right switches, design the right topology, and validate your link

Link Aggregation: Static vs Dynamic, LACP, and MLAG Configuration

This article provides a comprehensive explanation of link aggregation — covering LACP, static vs dynamic link

Configuration Guide for Cisco NCS 4000 Series

Link Aggregation (LAG) is a mechanism used to aggregate physical interfaces or ports to create a logical entity called

Link Aggregation Control Protocol Guide

Two of the most common uses of link aggregation connect one switch to another switch or a server to a switch. The aggregation

How to configure LACP on our Smart/ Managed Switch

LACP, defined in IEEE802.3ad, is used to combine multiple physical links dynamically as a logical link, and thus this

Aggregation Switch

An aggregation switch refers to a type of switch used to connect multiple ToR switches to a core switch/router in a cloud data center

Aggregated Ethernet LACP for Switches | Junos OS | Juniper Networks

Learn about aggregated Ethernet LACP, and how to configure LACP and LACP link protection.

Port Aggregation Configurations

Port aggregation is useful for implementing load balancing and provides a redundant link backup. To allow port aggregation, the

Essential FAQs about Link Aggregation, LAG, and LACP

Link Aggregation is the general concept of combining multiple physical Ethernet links into one logical connection. This

What is an Aggregation Switch? | Features and Practical Benefits

Additionally, the access switch includes user management features like address authentication, user authentication,

Link Aggregation Switches: A Guide to LACP, LAG, and Throughput

You can use standard Category cables (Cat5e, Cat6, Cat6a) or Fibre patch leads. However, because Link Aggregation is often used

Unlock Speed with Ethernet Port Aggregation Guide

Port aggregation uses several interfaces to handle data in parallel. This method helps by spreading out data across

Aggregation Switch

The regular Aggregation switch is best used to connect all devices in a rack together when there is no need for an "even bigger

Aggregated Ethernet Interfaces Overview | Junos OS | Juniper Networks

Aggregated Ethernet interfaces can use interfaces from different FPCs, DPCs, or PICs. The following configuration is sufficient to get

Link aggregation

Link aggregation Link aggregation between a switch and a server In computer networking, link aggregation is the combining

Standalone AC Solution: Aggregation Switches Function as Gateways

In this example, aggregation switches set up stacks that function as gateways for wired and wireless users on the entire network and

Why You Need a Fiber Aggregation Switch and How it Can ...

What is a Fiber Aggregation Switch? Understanding Fiber Aggregation Fiber aggregation is the act of combining many

Link Aggregation: What is it, and How Does it Work?

Link aggregation is a way of bundling a bunch of individual Ethernet links together so they

Review Catalyst Switch Cable, Connector, & AC Power Cord Guide

This document describes the care and use of Catalyst switch equipment including cables, connectors, power

How To Set Up Switch Link Aggregation

In this article, I'm going to describe how to set up Link Aggregation between two managed switches to provide connectivity,

Link Aggregation and LACP basics

The advantages of link aggregation compared to a conventional connection via a single cable are higher availability

Link Aggregation Control Protocol

The Link Aggregation Control Protocol (LACP) is an IEEE standard protocol that combines multiple physical Ethernet

Chapter18:Link Aggregation Configuration

1.1 Overview Port aggregation is binding the physical ports with the same attribute together, so as to establish a logic

What Is an Aggregation Switch?

What is the difference between an aggregation switch and a core switch? An aggregation switch consolidates traffic

Setting Up Faster and Redundant Network Connections with LACP on

LACP allows you to combine (or "aggregate") multiple physical network cables into one logical connection, giving you faster data

What is Switch Aggregation, Its Role and Selection Advice

This article wraps up "what is switch aggregation" and suggestions for choosing an aggregation switch. By

Configuring Link Aggregation Group and Link Aggregation Control

Link Aggregation Group and Link Aggregation Control Protocol Configuration Procedures Cost savings resulting from use of existing

Switching

Static Link Aggregation Static Link Aggregation involves manually configuring two or more ports to operate as a single logical

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