

Core Switch Hardware Parameter Table



Article Overview

This table summarizes key hardware parameters for enterprise core switches from Cisco, HP, Juniper, and Alcatel-Lucent.

Parameter	Cisco Catalyst 9600	Cisco Catalyst 9400	HP StorageWorks 2/64	Juniper QFX5120	Alcatel-Lucent OmniSwitch 6900
Chassis Type	Modular, 14-slot	Modular, 7-slot	Modular, 32-128 ports (2x64)	Fixed/modular (varies by model)	Modular, rack-mount
Supervisor/Control Card	SUP-2 (Cisco Silicon One Q200 ASIC)	SUP-2/2XLCP	Integrated	ASIC / Switching Engine	Cisco UADP 3.0, 9.6 Tbps, 3 Bpps
Port Density	Cisco UADP 2.0, up to 9 Tbps	Proprietary	Juniper QFX ASIC, high-performance	Proprietary	1G-25G SFP, 40G-100G QSFP
Up to	384 ports (10G/5G/2.5G/1G)	32-128 ports	32-48 ports per unit	Varies by line card	Layer Support
Layer Support	L2/L3, VXLAN, BGP EVPN, NAT, mVPN	L2/L3, SD-Access	L2/L3, FL_Port/F_Port/E_Port	L2/L3, VXLAN	L2/L3 Forwarding Performance
Forwarding Performance	4.8 Tbps full duplex, 3 Bpps	Up to 9 Tbps system bandwidth	High-performance SAN switching	High-performance, low latency	Medium to high
MAC / IP / ACL Table	Large scale, double-width tables	Enterprise scale	Standard SAN tables	Large scale	Medium scale
Power Supplies	Redundant, hot-swappable, 2+	Redundant, hot-swappable	4 slots, AC/DC options, redundant	Redundant, hot-swappable	Cooling / Fans
Cooling / Fans	Front-to-back, dual fan trays	Dual-serviceable fan trays	Air-cooled, blower assembly	Front-to-back airflow	Redundant fans
Rack Units	14 RU~16 inches depth	14 RU	1U per unit	Varies	Special Features
Special Features	Cisco IOS XE, automation, ISE integration	NSF/SSO, ISSU, StackWise	Virtual SFP auto-config, FL/E Ports	Junos OS, automation	ALE management tools
Redundancy	Supervisor, power, fans	Power, fans, StackWise	Power, blower	Power, fans	Power, fans

Notes:...

Article Content

SME Network Solution Typical Configuration Examples

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

Cisco Catalyst 9300 Series Switches

Cisco Catalyst 9300 Series Switches - Some links below may open a new browser window to display the document you selected.

Interface and Hardware Components Configuration Guide, Cisco IOS

Switch ports are used for managing the physical interface and associated Layer 2 protocols and do not handle routing or bridging.

CORE SWITCHES

Quantum Core Series Switches support redundant hot-swappable power supplies, fan redundancy, a choice of L2 and L3 multi

Network Switch Components and Technical Analysis

Within network architecture, Network Switches are classified into different roles, including Access Switches and Core

What Is a Core Switch in Networking?

What Is a Core Switch in Networking? Understanding the Backbone of Your Network A core switch in networking

Core Switch vs. Distribution Switch vs. Access Switch

Comprehensive guide to Core, Distribution, and Access Switches. Roles in the network and important parameters explained.

HP L3 and Core Switch Test Parameters and UTP and Fiber cable

We have just procured HP core and access switches for our network of 400 plus nodes. HP is new for us and to

Network Switch Components and Technical Analysis

The Core Switch then forwards the data to the target network or device according to the routing information. Beyond

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

Core Switch

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

config.txt

Instead of the BIOS found on a conventional PC, Raspberry Pi devices use a configuration file called config.txt. The GPU reads

How to Configure a Cisco Switch in 10 Steps

Learn how to Configure a Cisco Switch. Follow along this Step-by-Step guide that will get you using Commands via

Core Switch 2/64 V4.1 Installation Guide

Part Number: AA-RS2WC-TE This installation guide provides procedures for setting up, configuring, and managing the Core Switch

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

What Is a Core Switch?

A core switch is the backbone of a large-scale network, designed to handle massive volumes of traffic with ultra-low latency and

Introduction to Core Switch Configuration

A switch that functions as part of a router and operates at the third layer of the OSI network standard model, the network layer. The

What is Core Switch and How to Choose

In this article, we will provide an overview of the core switch, its significance, and offer guidance on how to choose the

Features and Applications of Core Switches

A Core Switch is a critical device that operates in the backbone portion of a network, primarily used for high-speed

Gigabit/Hundred Gigabit/Core/PoE/Fiber Switch Selection Guide

The switch is the core equipment for monitoring network transmission. There are many critical technical parameters to

Configuring Cores

Configuring Cores Core files can be saved either manually by a user or automatically at the time of the fault. If a core file is created,

Understanding Core Switch: What It Is and How to Choose the

Redundancy in a core switch is vital for safeguarding network security. It's essential to choose a switch that offers

Core Switch Reference Config | Validated Solution Guide

Branch Core Switch Template Table of contents Branch Core Switch Template For modification of this template,

H3C S7500X Enterprise Core Switch Series

H3C S7500X switch series is the first of its kinds in the industry to support wire speed performance for high density 10G/40G/100G

DS-3E3752F-H 48 Port Fiber Core Switch

Gigabit speed Layer 3 Ethernet switch. This powerful and highly secure switch series is built based on industry-leading igh

CloudEngine 12800 Series Data Center Core Switches

CE12800 series switches use advanced hardware architecture design and have the highest performance of any currently available

Catalyst 9000 Switching Family Core and Distribution

“Uplink ratios up to 20:1 between the Access and Distribution layer switches, and 4:1 between the Distribution layer and Core

High-speed system architecture design of DCN core switch

51.2T core switch high-speed signal system PHY-less design solution, compared with the PHY solution, it simplifies the hardware

Campus LAN Core and Distribution Switches

Cisco Catalyst and Meraki Campus LAN core and distribution switches are scalable, secure network switches with exceptional

Cisco Nexus 5600 Platform 10-Gbps Switches Data Sheet

This data sheet describes the benefits, specifications, and ordering information for the Cisco Nexus 5600 Platform 10

Configuring the Core Switch

Configuring the Core Switch Context In this scenario, IP addresses of the interfaces connecting the core switch to the

H3C S10500X-G Series Next Generation Core Switch

To ensure the network operating continuity, the S10500X-G delivers carrier-grade reliability, features redundant designs across key

TIA Openness SIMOCODE – Hardware Parameters.

When you write hardware parameters via TIA Openness, a undo action is created in TIA Portal for each write operation. This is why it

Core Switch Specifications and Features

Core Switches - Free download as Word Doc (.doc / .docx), PDF File (.pdf), Text File (.txt) or read online for free. The document

Core Switches: The Pillar of Network Infrastructure

Get a closer look at core switches: the nerve centers of network infrastructure that enhance performance and facilitate

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