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Benefits of Upgrading to Cisco Catalyst 9300 Series Switches

Why upgrade to the Cisco Catalyst 9300 Series switches? Because they are simple, secure, and ultrapractical

Digital disruption is changing how we think about our networks. Whether for customers or employees, the "experience" has become a strategic imperative. The Cisco Catalyst 9300 Series fixed access switches are designed to help you change your network from a platform of connectivity to a platform of services.

The Catalyst 9300 Series offers a broad range of port and management options, providing operational choice of physical or virtual appliances with Cisco DNA Center, or by using Meraki cloud managed dashboard. These switches deliver stellar performance and functionality and extend Cisco's networking leadership with significant innovations in security, mobility, the Internet of Things (IoT), and cloud.

Give your users top-notch network and service experience with next generation observability from switch to SaaS and everything in between. Catalyst 9300 switches include hosted Cisco Spaces and ThousandEyes Enterprise Agents, giving you visibility inside and beyond your campus perimeter so you solve issues faster.

Finance your switching migration with Cisco Capital

Let financing from Cisco Capital make migrating your switches and accelerating your digital transformation even easier. Cisco Capital Easy Pay makes this transition as easy as possible, with no upfront costs and predictable monthly payments. You pay 90 percent of the total over a three-year period that is completely interest free. At the end of the term, you have the option to return and refresh the equipment, extend your lease, or purchase the solution at 10 percent of the original cost. Take advantage of this market-leading interest rate and use your budget for other investments.

Take advantage of Cisco Capital Easy Pay.

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Table 1.   Benefits of the Cisco Catalyst 9300 Series compared to other Cisco Catalyst access switches

Trend	Feature	Installed-base access switches				Benefits
		Cisco Catalyst 3560-X, 3750-X Series	**Cisco Catalyst 3750G Series**	**Cisco Catalyst 3850 Series**	**Cisco Catalyst 9300 and 9300X models**	
Scale and performance	Bandwidth per stack	No stacking/64 Gbps	32 Gbps	480 Gbps copper and fiber	up to 1Tbps copper and fiber	Greater throughput
	Uplinks	2x10G[1]	4x1G	4x1G, 2x10G, 4x10G (all models)	2x, 4x dual-rate 100G/40G; 2x 40G; 2x, 8x multirate 25G/10G/1G; 4x, 8x 10G mGig; 4x 1G	Greater uplink scale with Catalyst 9300X
	Multigigabit technology	–	–	✔	✔ (including uplinks)	Supports speeds above 1G in traditional cabling environments
Advanced security	Native Flexible NetFlow	–	–	✔	✔	
	Cisco TrustSec and SGT[2] for wired and wireless	Wired	–	✔	✔	Orchestrate role-based access to Corporate resources AES-256, MACsec-256, WAN MACsec
	Trustworthy Solutions	–	–	✔	✔	
	Native MACsec-256 encryption	–	–	Multigigabit, 10G models only	✔	Most secure link authentication and encryption
	Encrypted Traffic Analytics	–	–	–	✔	Detect malware hiding in encrypted traffic without decrypting it
	Cisco Umbrella	–	–	–	✔	Cloud security service that provides a first line of defense against threats, wherever users access the internet — on or off the corporate network.

[1] G: Gigabit Ethernet   [2] SGT: Security Group Tag

Trend	Feature	Installed-base access switches				Benefits
		Cisco Catalyst 3560-X, 3750-X Series	**Cisco Catalyst 3750G Series**	**Cisco Catalyst 3850 Series**	**Cisco Catalyst 9300 and 9300X models**	
Simplicity and automation	x86 CPU	–	–	–	✔	Faster CPU performance
	Cisco IOS XE OS	–	–	✔	✔	Single common network OS across switching, routing, wireless, and IoT
	KVM[3] and container-based hosting environments	–	–	–	✔	App hosting in the network including Docker containers
	Guest shell	–	–	✔	✔	On-box Python scripting
	Model-driven programmability	–	–	✔	✔	Standards-based programmable interfaces
	Streaming telemetry	–	–	✔	✔	Rich contextual insights
	Fabric-in-a-box	–	–	–	✔	Enable SD-Access without needing separate devices for each fabric role
	SD-Access[4] programmability	–	–	Optional subscription	✔	
	Cisco ThousandEyes Enterprise Agents	–	–	–	✔	Visibility from network to cloud for rapid problem isolation
	Cisco Spaces	–	–	–	✔	Visibility of wired and wireless network devices for Smart Building
	Cloud monitoring for Catalyst	–	–	–	✔	Visibility on Meraki Dashboard
Bring Your Own Device (BYOD) and mobility	Wi-Fi 6 and Wave 2 APs	–	–	24	48	
	Max number of APs supported	–	–	100	200	Highest density of next-gen access points in a single RU box
	UADP[5] ASIC for wired and wireless convergence	–	–	UADP 1.0	UADP 2.0 UADP 2.5sec	Enable converged wired and wireless access for operational simplicity and scale
	Application visibility across wired and wireless	–	–	✔	✔	
	End-to-end quality of experience[6]	–	–	–	✔	

[3] Kernel-based virtual machine   [4] SD-Access: Software-Defined Access   [5] UADP ASIC: Unified Access Data Plane ASIC   [6] Cisco Assurance

Table 2. Benefits of the Cisco Catalyst C9300L models compared to other Cisco Catalyst access switches

Trend	Feature	Installed-base access switches		Benefits
		Cisco Catalyst 3650 Series	**Cisco Catalyst 9300L/LM Models**	
Scale and performance	Bandwidth per stack	160 Gbps	320 Gbps	Support multigigabit access growth for wired and wireless, 802.11ac
	Uplinks	4x1G, 2x10G, 4x10G 8x10G 2x40G Fixed	4x1G, 4x10G Fixed	
	Patching	–	Hot patching	Add patches without waiting for next maintenance release
Advanced security	Native Flexible NetFlow	✔	✔	
	Cisco TrustSec and SGT for wired and wireless	✔	✔	Orchestrate role-based access to corporate resources AES-256, MACsec-256
	Trustworthy solutions	✔	✔	
	Native MACsec-256 encryption	–	✔	Provides most secure link authentication and encryption
	Encrypted Traffic Analytics	–	✔	Detect malware hiding in encrypted traffic without decrypting it
Simplicity and automation	x86 CPU	–	✔	Accelerate innovation
	Cisco IOS XE OS	✔	✔	Single common network OS across switching, routing, wireless, and IoT
	KVM and container-based hosting environments	–	✔	App hosting in the network
	Guest shell	–	✔	On-box Python scripting
	Model-driven programmability	–	✔	Standards-based programmable interfaces
	Streaming telemetry	–	✔	Rich contextual insights
	SD-Access programmability	–	✔	Fabric-in-a-box deployment
	Cisco ThousandEyes Enterprise Agents	–	✔	Visibility from network to cloud for rapid problem isolation
	Cisco Spaces	–	✔	Visibility of wired and wireless network devices for Smart Building
	Cloud monitoring for Catalyst	–	✔	Visibility on Meraki Dashboard

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Trend	Feature	Installed-base access switches		Benefits
		Cisco Catalyst 3650 Series	**Cisco Catalyst 9300L/LM Models**	
	Wi-Fi 6 and Wave 2 APs	12	12	
	Max number of APs supported	25	50	
	UADP ASIC for wired and wireless convergence	UADP 1.0	UADP 2.0	Enable converged wired and wireless access for operational simplicity and scale
	Application visibility across wired and wireless	✔	✔	
	End-to-end quality of experience	–	✔	

Improve your results with our services

With Cisco Services, you can achieve infrastructure excellence faster with less risk. Our services for Cisco Catalyst 9000 provide expert guidance to help you successfully plan, deploy, manage and support your new switches. With unmatched networking expertise, best practices and innovative tools, Cisco Services can help you reduce overall upgrade, refresh, and migration costs as you introduce new hardware, software and protocols into the network. With a comprehensive lifecycle of services, Cisco experts will help you minimize disruption and improve operational efficiency to extract maximum value from your Cisco DNA-ready infrastructure.

Learn more about all Services for Switches.

More reasons to upgrade

- Reduce cost and complexity with Cisco SD-Access by automating policy, enabling fast service creation, and providing complete visibility into the wired and wireless access networks

- Get greater visibility and management in Meraki cloud environments with cloud monitoring for Catalyst

- Create better customer and employee experiences through higher performance, improved network visibility, and service assurance with embedded Cisco Spaces and ThousandEyes network testing

- Gain advanced end-to-end security to handle threats before, during, and after attacks