ıılıılıı cısco

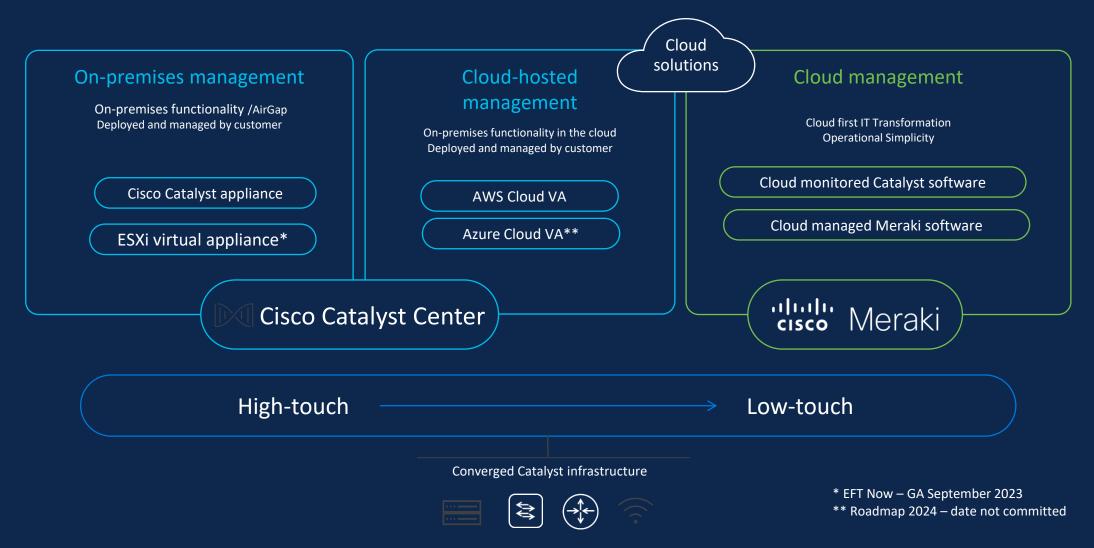
Cisco Catalyst CVU

Catalyst Switching

SE René Andersen/ Ib Hansen



Your IT Operation Model, Your Way



Catalyst Meraki 9300 Simply powerful



Orderable with Meraki day 0 experience

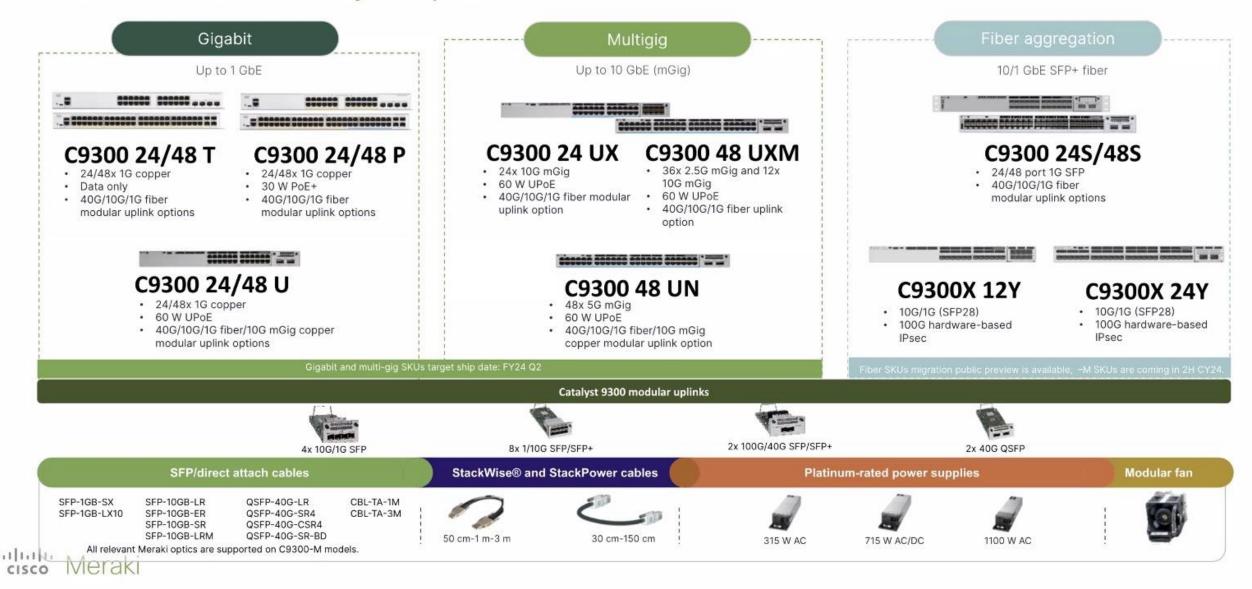
9x Access SKUs Orderability: Oct, 2023 FCS: Nov 15, 2023 4x Fiber SKUs Orderability/FCS: Q3 FY24

... and more

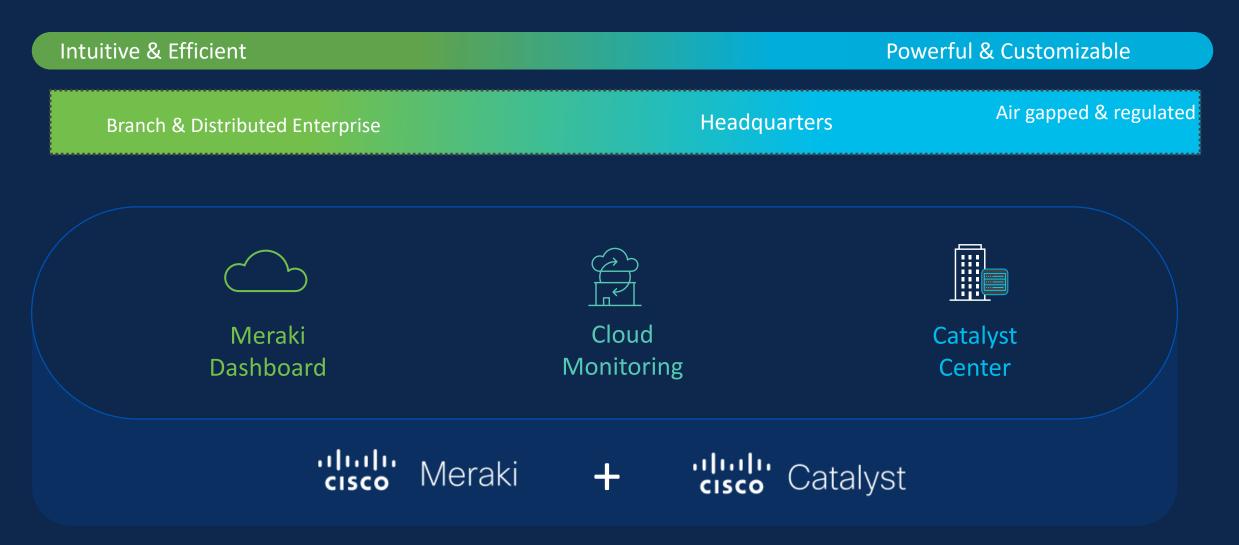


Catalyst Meraki 9300 Series Overview

Orderable With Meraki Day-0 Experience



Cisco's Comprehensive Networking Portfolio



Cloud Monitoring Included with DNA License

Offer Additional Value for Cisco DNA Subscriptions

Also Included with Catalyst Software Subscriptions (DNX)

Cisco DNA Advantage

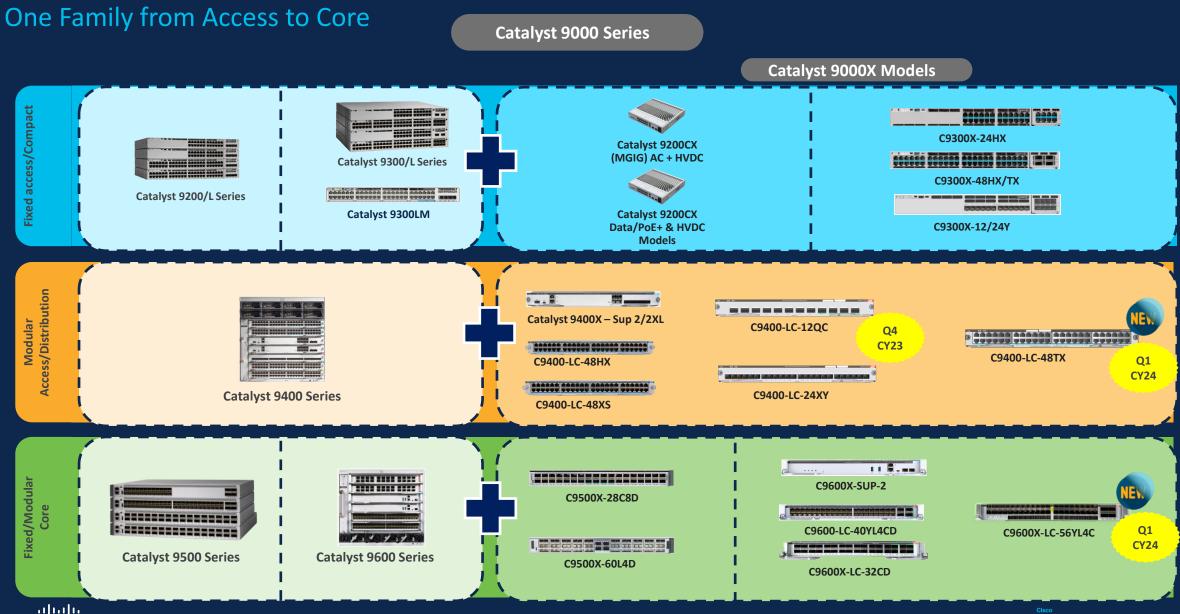
Full monitoring suite for Catalyst Switches, Wireless LAN Controllers and Access Points + Client Traffic Analytics provided by IOS-XE NBAR and NetFlow

Cisco DNA Essentials

Full monitoring suite for Catalyst Switches, Wireless LAN Controllers and Access Points



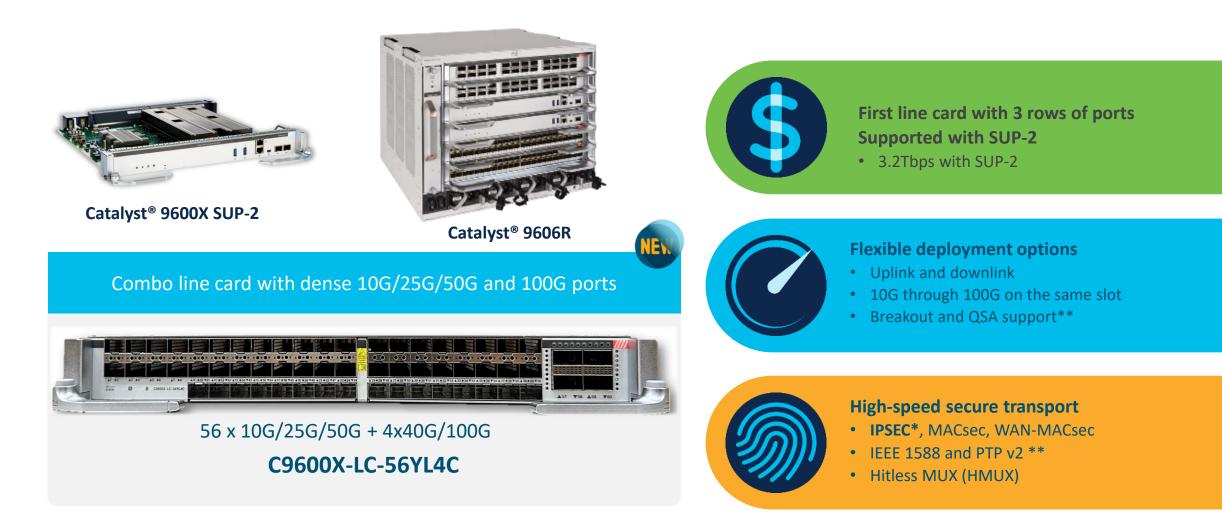
Cisco Catalyst 9000 Switching Portfolio



CISCO

Sales Enablement and Acceleration

C9600X-56YL4C : High Density Line Card



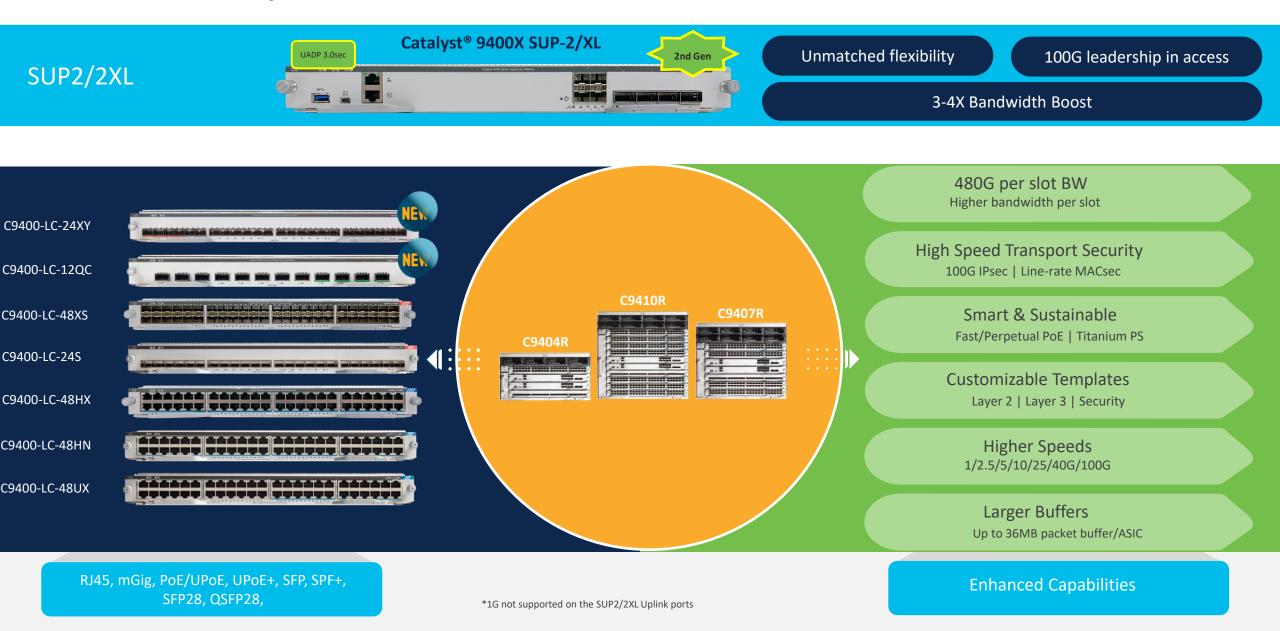
* 400G IPSEC HW Capable ** Post-FCS Features

Introducing Catalyst 9500X-60L4D Dense 1 RU SFP56 Switch – 60 x 10/25/50G + 4 x 40/100/200*/400G



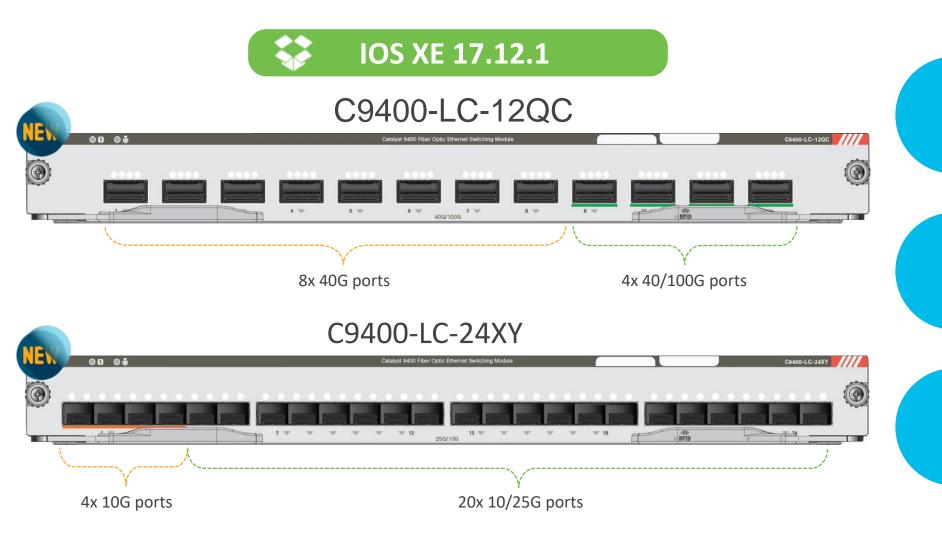


Cisco Catalyst 9400 Series





Introducing 25G & 40G/100G Line Cards on C9400X



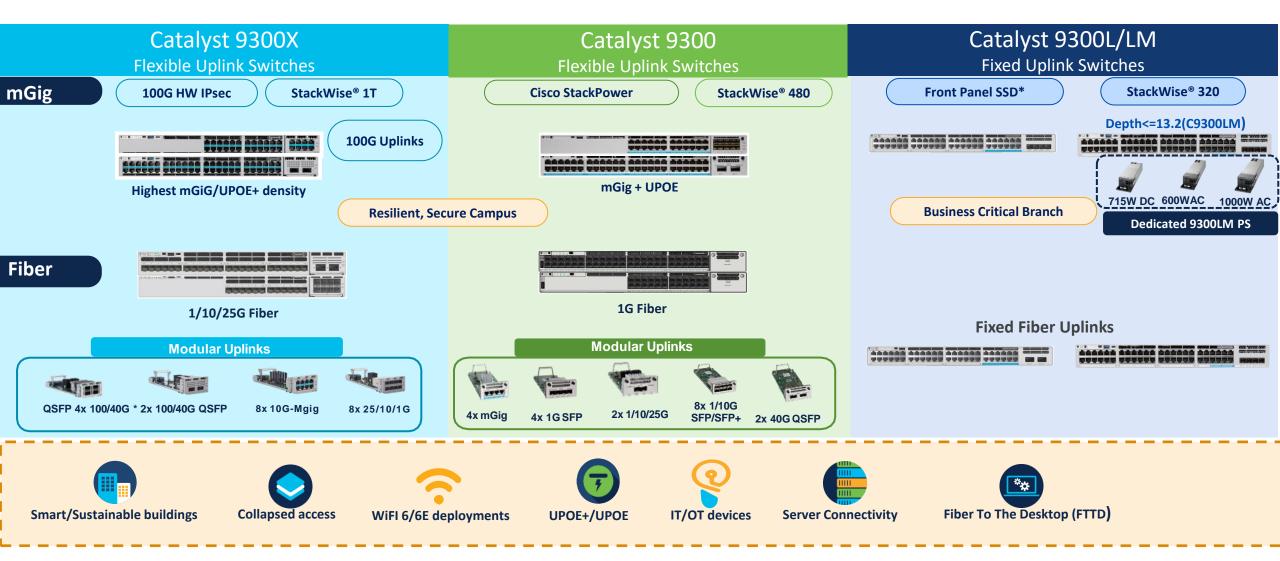
Enabling Collapsed Access & Distribution Transition with SUP2

Higher speed downlinks for High-end Access expanded designs

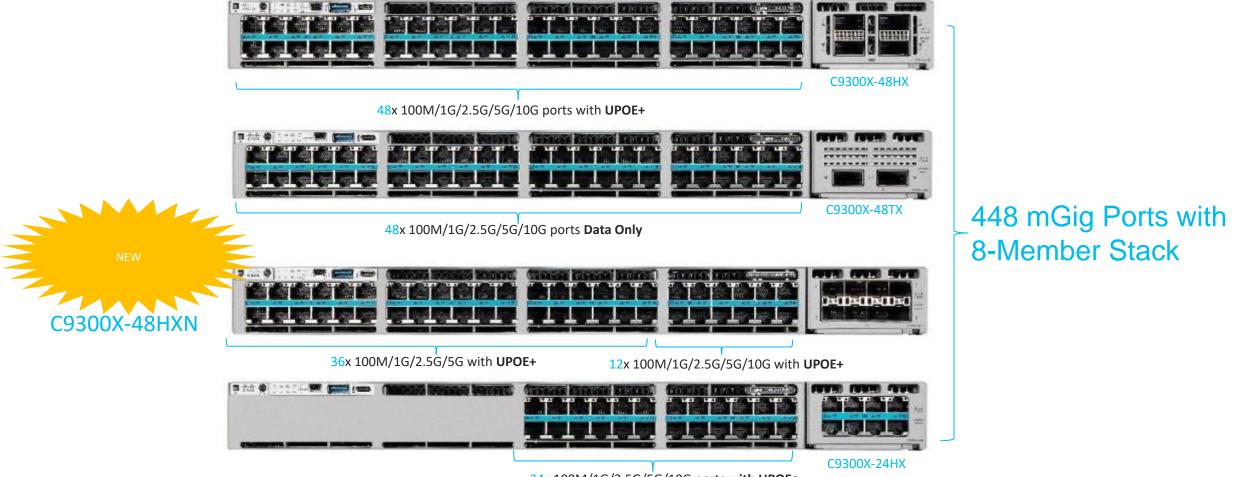
Supported with SUP-2 & SUP-2XL Only

Cisco Catalyst 9300 Series

Expanded Catalyst 9300 Series with Catalyst 9300X and Catalyst 9300/L/LM models



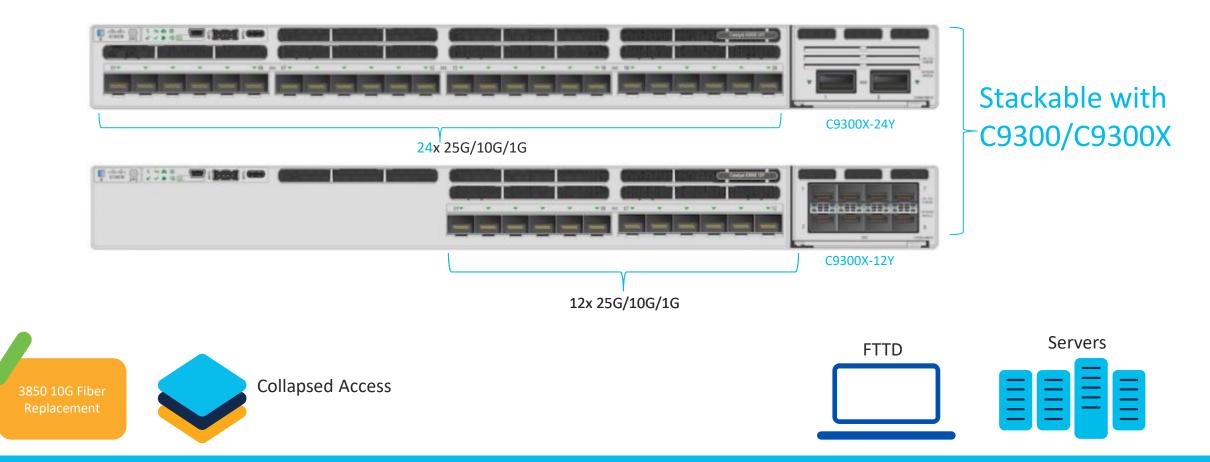
NEW Catalyst 9300X Multigigabit Models



²⁴x 100M/1G/2.5G/5G/10G ports with UPOE+

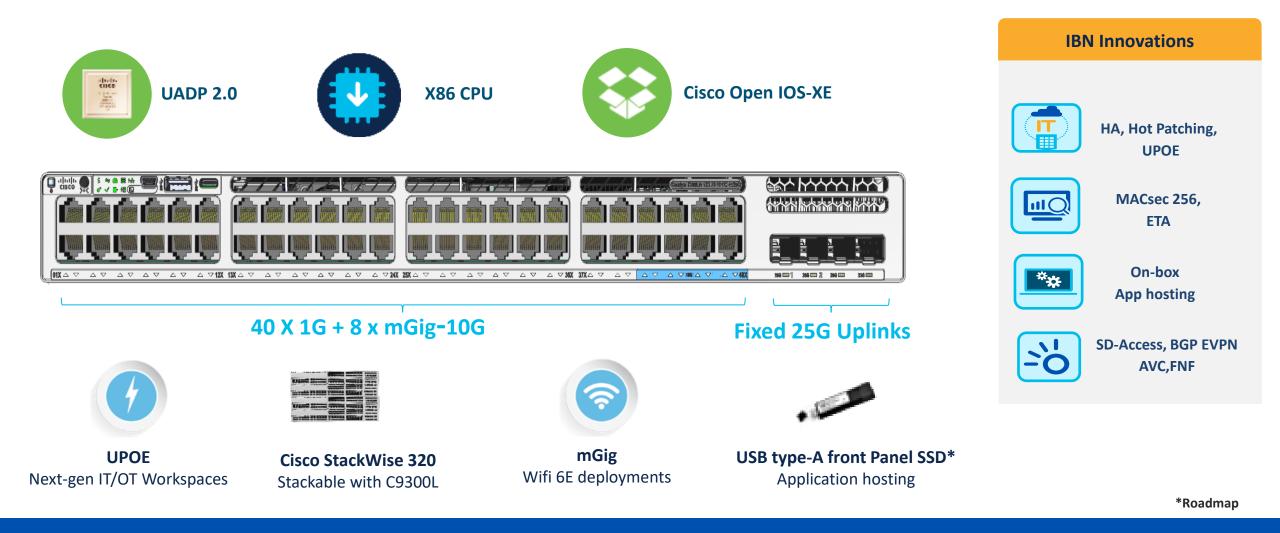
Highest Multigigabit Ports in the Industry with Standalone and StackWise-1T

Catalyst 9300X High-Speed Fiber



Bringing Stackable High-Speed fiber to the Access

Introducing 9300LM(mini) Series Switches in C9300L Family Fixed Uplink replacement for Catalyst 3650-mini



Catalyst 9000 Innovations in Shallow depth Form Factor

Catalyst 9300LM- Shallow Depth



Dimension(H X W x D)

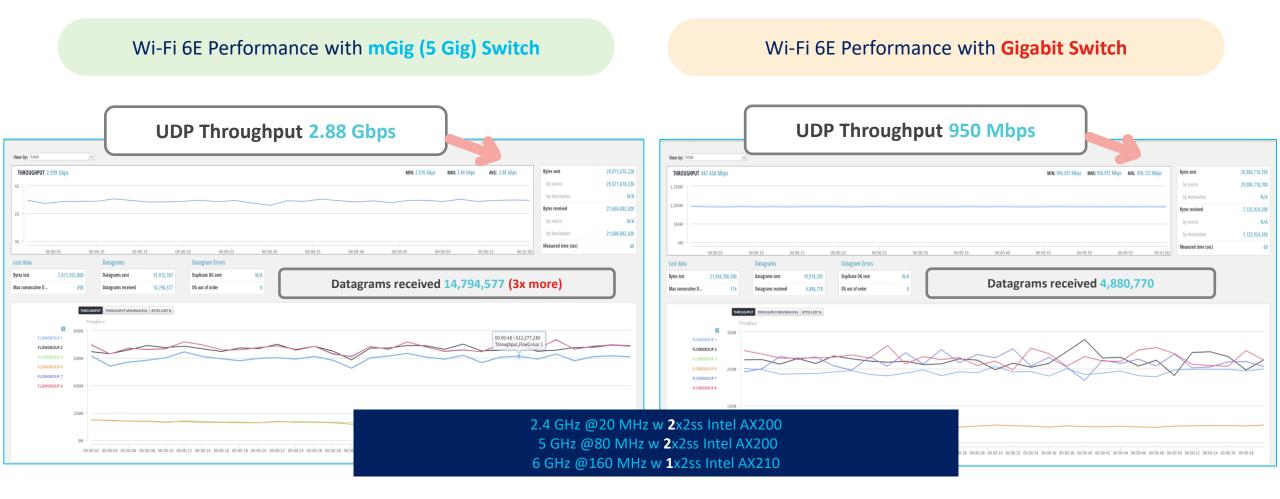
SKU	AC PSU	DC PSU	
Data Models	17.50" x 1.73" x 12.39"	17.50" x 1.73" x 11.86"	
UPOE/mGig Models	17.50" x 1.73" x 13.17"	17.50" x 1.73" x 13.03"	

Migration Platform for C3650-mini

Why mGig Switch for Wi-Fi6/6E Access Points?

Conclusion – Yes, you will need an mGig Switch

5 Gig (mGig) AP Uplink vs. **1** Gig AP Uplink



rijulu cisco

Catalyst 9300X – 3rd Party Certified



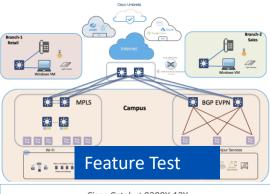
Cisco Catalyst 9300X Feature and Performance Validation Assessment Miercom.com/Cisco

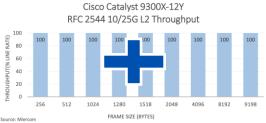
1.0 Executive Summary..... 2.0 Introduction 3.0 How We Did It 4.0 Smart Buildings 5.0 Wide Area mDNS Bonjour Services..... 6.0 Secure Connectivity with IPsec 7.0 Application Hosting with ThousandEyes..... 8.0 Zero Trust Segmentation with MPLS and EVPN 8.1 9300X MPLS 8.2 9300X BGP EVPN..... 9.0 Network Reliability with High Availability features 9.1 xFSU

Table of Contents

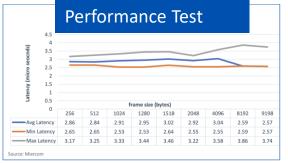
3.0 How We Did It

the Catalyst 9300X features and pe below, the theme of the testbed was to build a large campus simulating different buildings and extending to branch locations using different layer 3 overlay technologie Each site was centered around one or more Catalyst 9300X switches. Using a realistic network environment, we tested the capabilities of the Cisco Catalyst 9300X and its ability to suppor different features as outlined in Section 2.0 and maintain performance across these feature





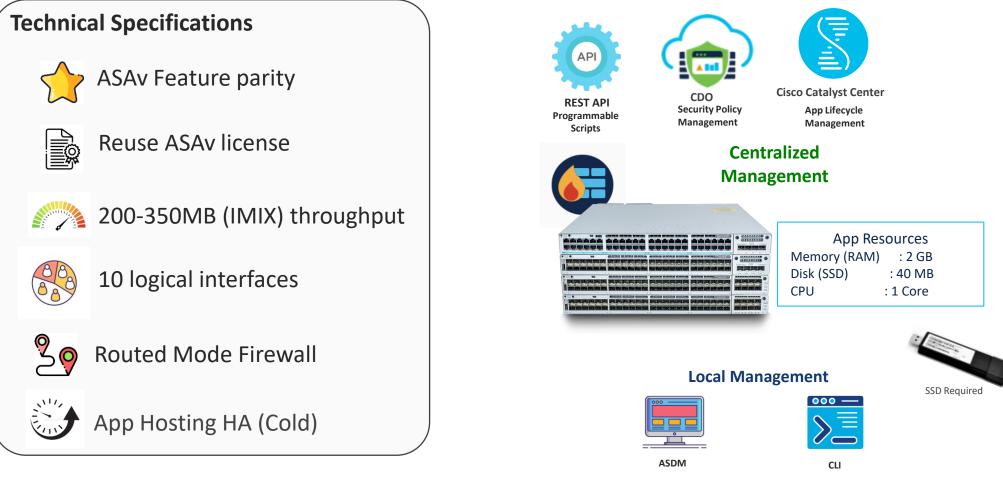
Catalyst 9300X models are line rate starting 200 bytes. For Layer 2, Cisco Catalyst 9300-12Y pro



https://miercom.com/cisco-catalyst-9300x-feature-and-performance-validation-assessment-dr230908/

Cisco ASAc Hosted on Catalyst 9300/L(LM)/X

Seamless Firewall Service Insertion in the Network



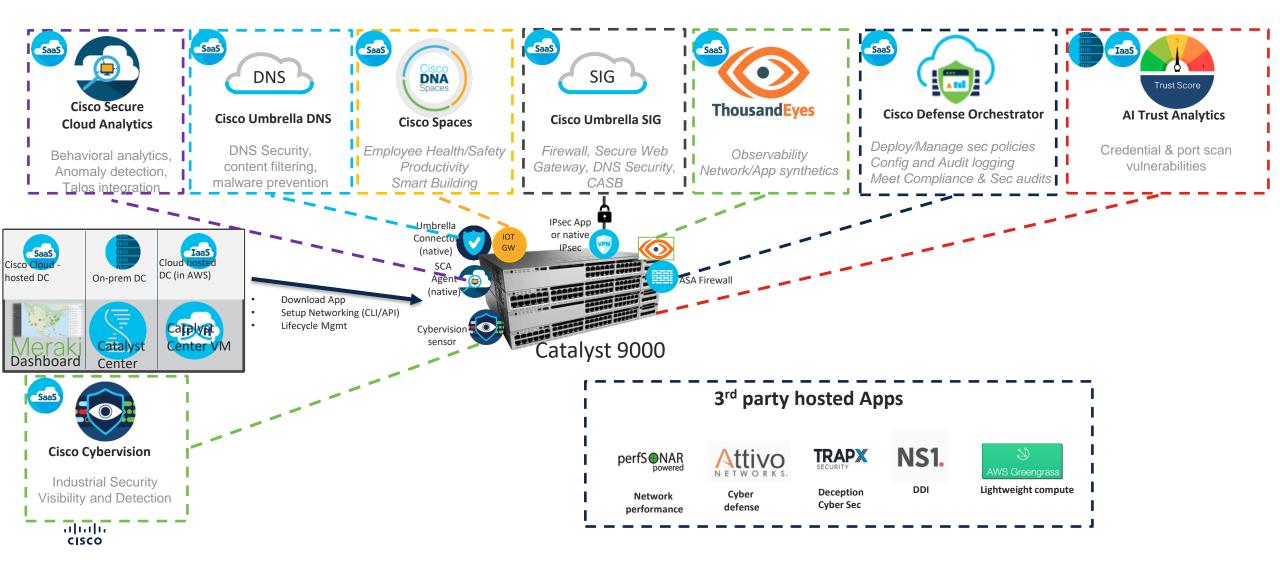
FCS Nov 2023

IOS-XE 17.12.2

ASA 9.20.2

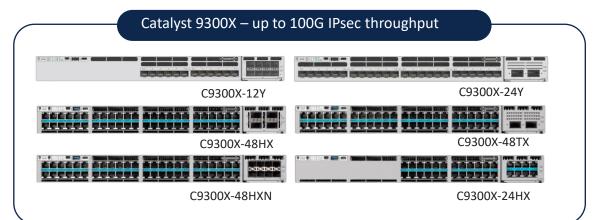
Catalyst 9000 with Catalyst Advantage

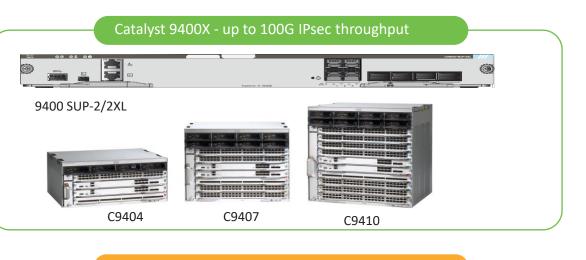
Enables Cisco Catalyst Full Stack Value



Secure Deployment with IPsec on Catalyst 9K





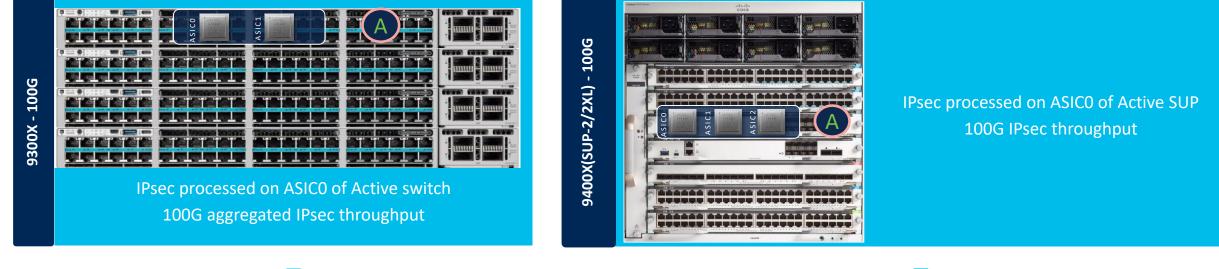


Catalyst 9500X - up to 400G IPsec throughput



ululu cisco

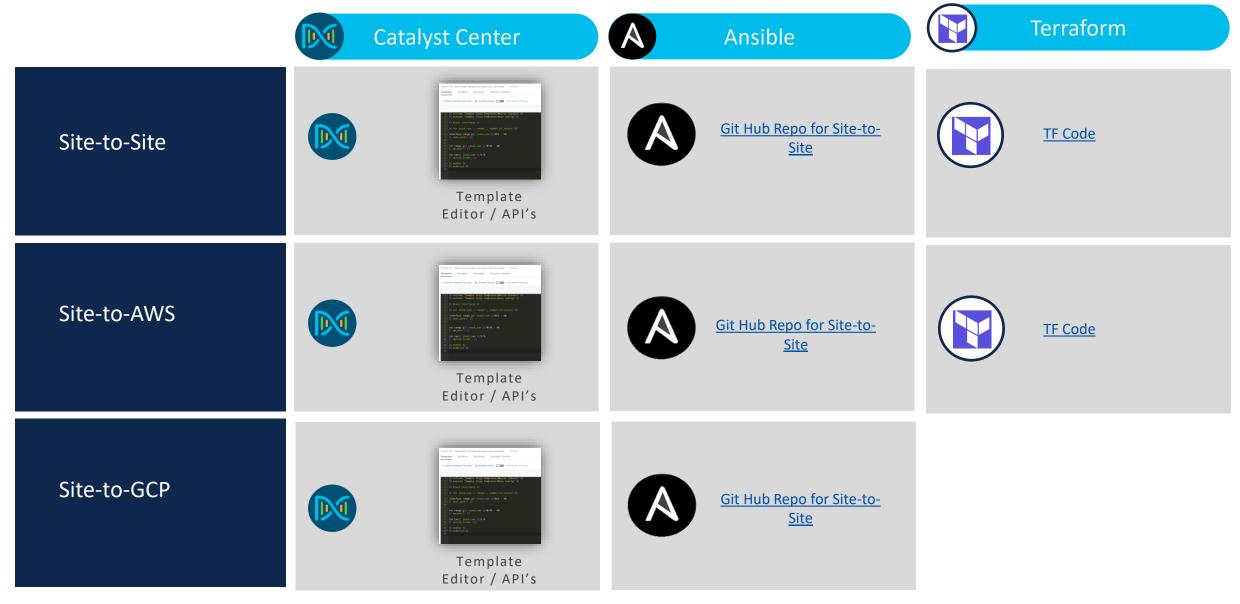
IPsec Performance and Scale enhancements



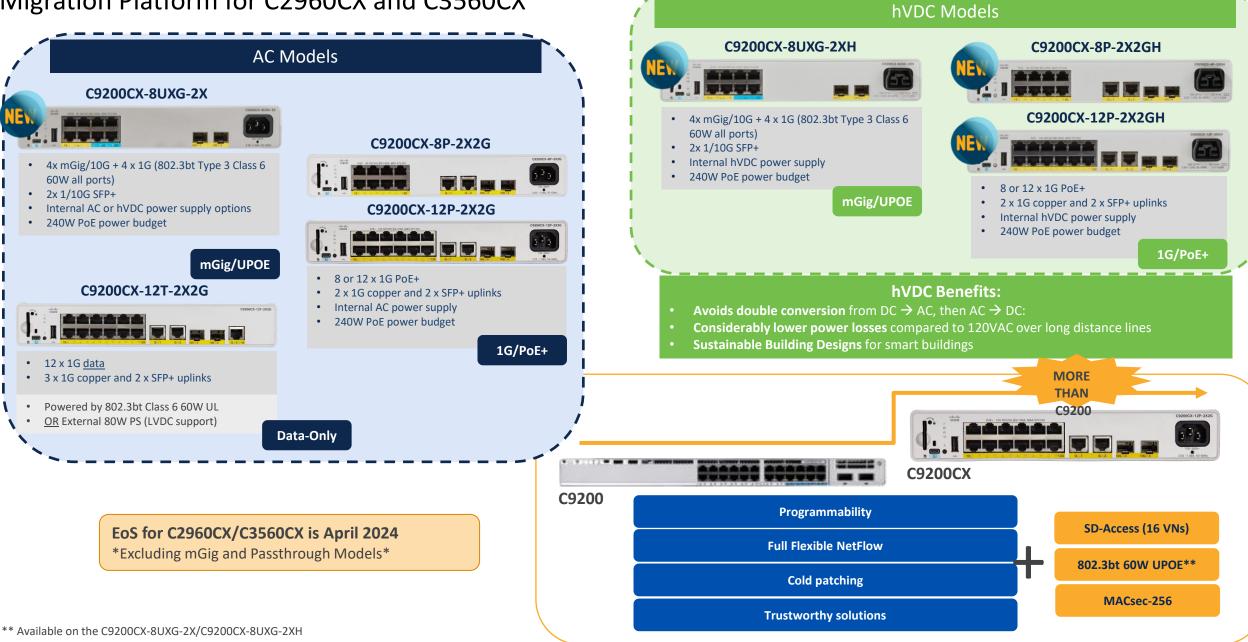


IPv4 Tunnel scale:480, IPv6 tunnel scale:240

Automate your IPsec Deployments



Catalyst 9200CX Family Migration Platform for C2960CX and C3560CX

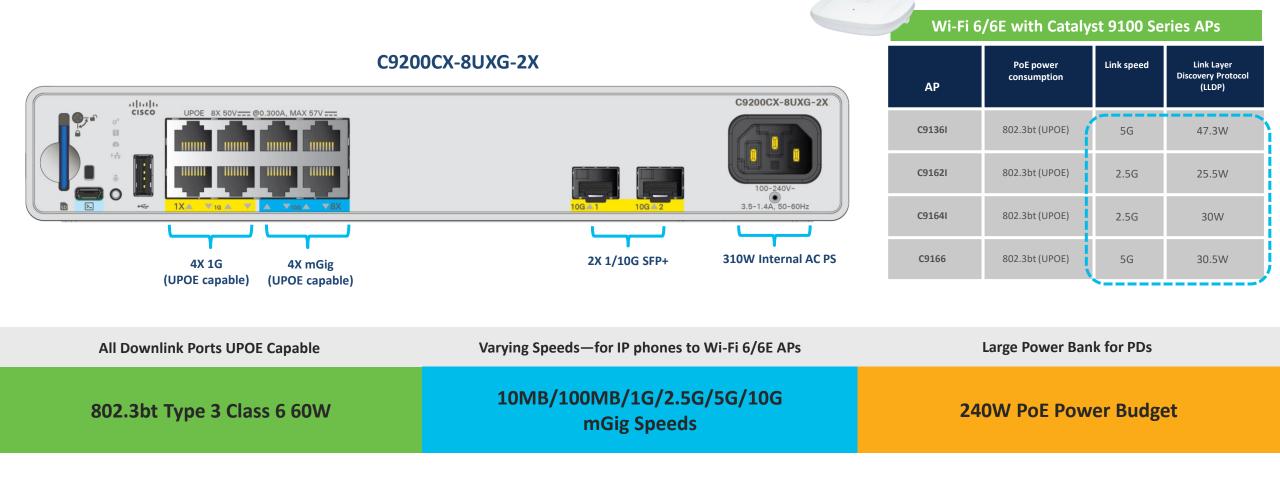


Orderable

Introducing Catalyst 9200CX mGig



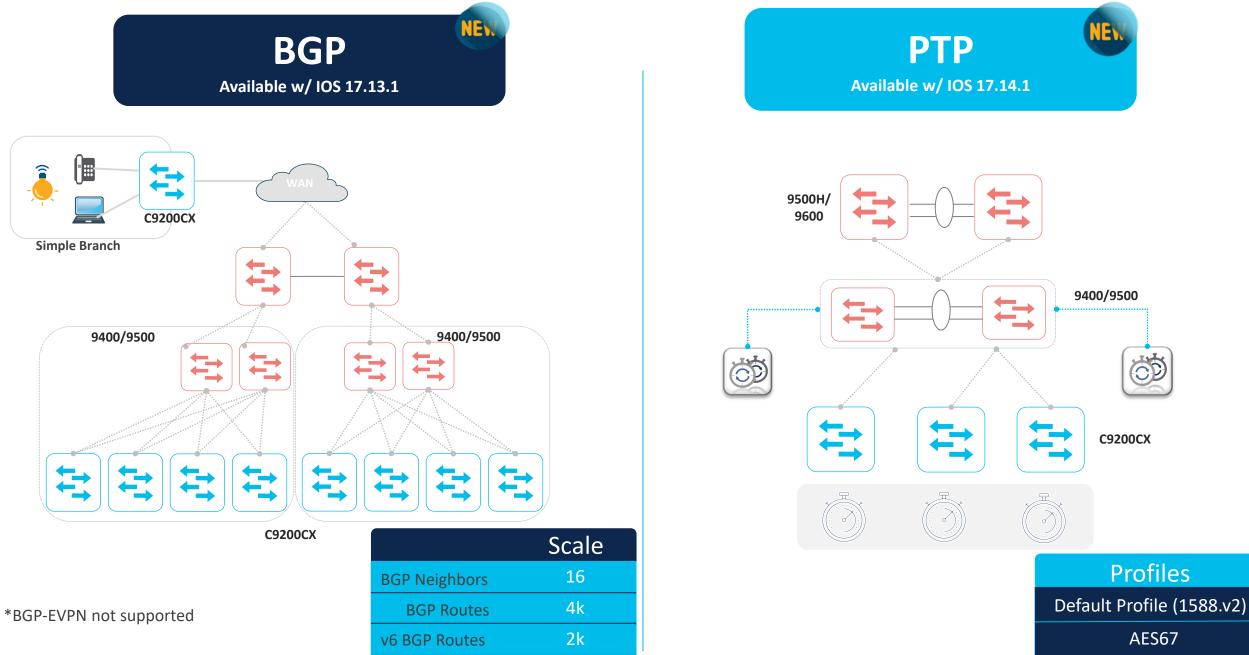
Ready for Wi-Fi 6/6E & Smart Building Deployments



Global Sales Enablement Team

© 2022 Cisco Systems, Inc. All rights reserved.

New Feature Support on Catalyst 9200CX



Upcoming Sustainability Features @17.14.1



Energy Consumption Visibility

 New Energy Consumption metering and enriched Yang MDT for System and PoE Ports telemetry with instant draw in (Watts) and hourly metering in (Kwh)

Cisco-IOS-XE-Platform-Oper.YANG

- PoE power metering per each port up to 24 hours
- System power metering with data saved up to 24 hours of total energy consumption locally on switch

Phase 1: C9200*, C9300*, C9400*

Smart LEDs

- Ability to turn off LED's and conserve energy
- CLI commands to enable/disable the LEDs
- Default turned off state possible in the future releases



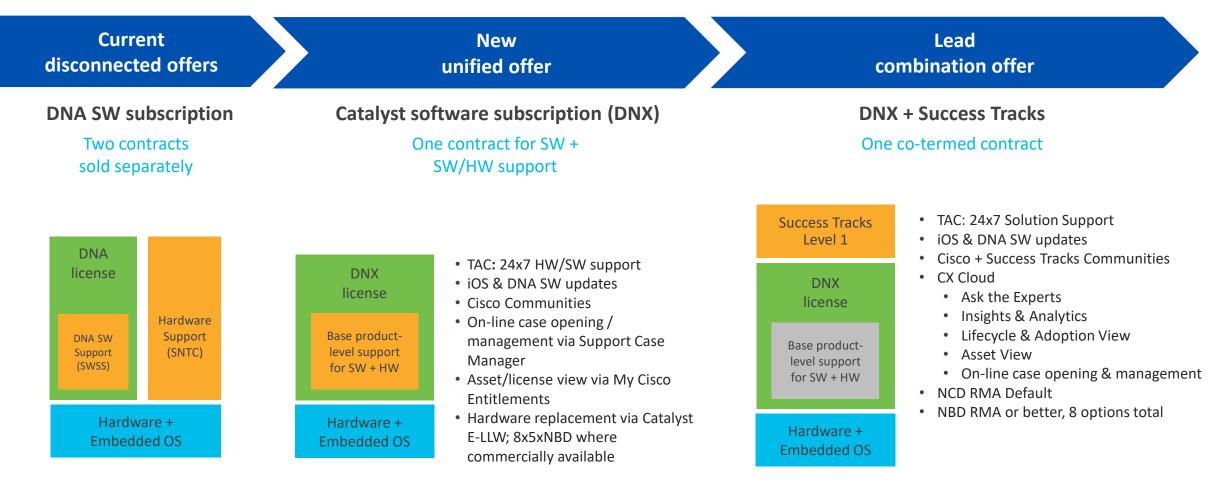
Unused Fiber Port Shutdown

- Auto-sense physical SFP module presence and turn-off PHY to save power on unplugged SFP ports to conserve energy
- Periodically check for SFP presence and auto Turn-on ports on SFP plug-in

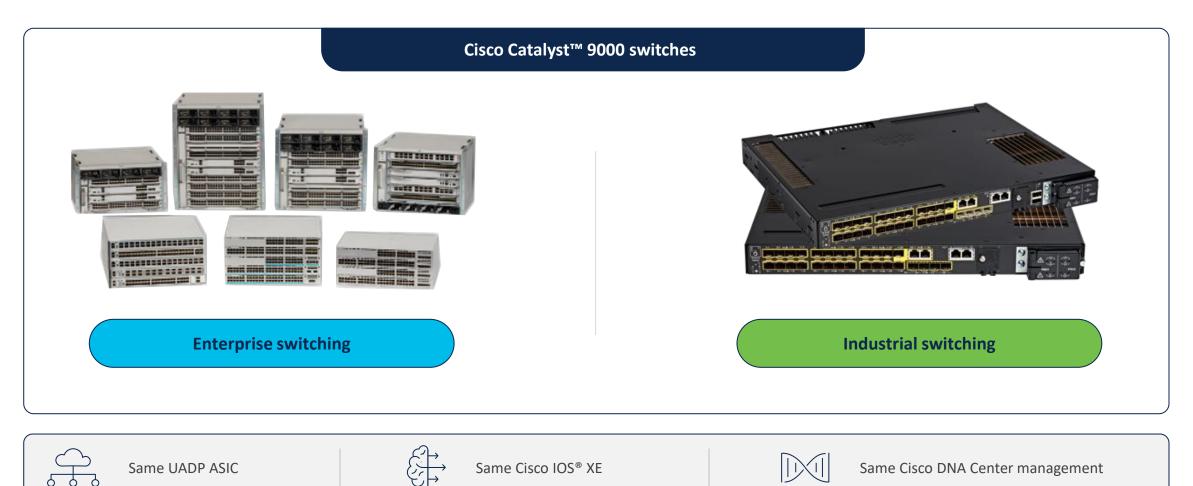
Phase 1: C9300*

Catalyst Software Subscription for Switching

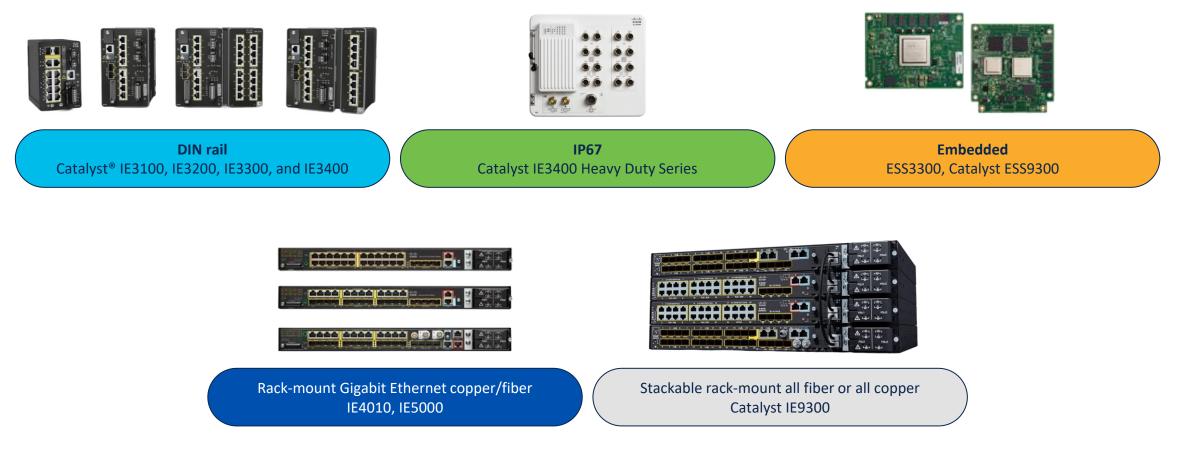
Transition from base product-level support to Success Tracks



Extend the Catalyst 9000 opportunity



Part of a broad market-leading industrial switching portfolio



The new Catalyst IE9300 Rugged Series portfolio

All-fiber and all-copper, high performance, ruggedized industrial rackmount switches

Shipping		5 New Models	. New
IE-9310-26S2C	IE-9320-24T4X	IE-9320-24P4S	IE-9320-24P4X
26x 1GE SFP ports	24x 1GE ports	24x 1GE with PoE/PoE+	24x 1GE with PoE/PoE+
2x 1GE combo ports	4x 10G SFP ports	Up to 385W PoE budget	4x 10G SFP ports
	Stackable	4x 1GE SFP ports	Up to 720W PoE budget
		Stackable	Stackable
IE-9320-26S2C	IE-9320-22S2C4X	IE-9320-16P8U4X	
26x 1GE SFP ports	22x 1GE SFP, 4x 10G SFP	8x mGig with 90W 4-pair PoE	
2x 1GE combo ports	2x 1GE combo ports	16x 1GE with PoE/PoE+ ports	PWR-RGD-AC-DC-400
Stackable	Timing input	Up to 720W PoE budget	720W of PoE power with 2 PSUs
	Conformal coating	4x 10G SFP ports	
	Stackable	Stackable	

The most comprehensive industrial rackmount portfolio in the market

Catalyst IE9300 Rugged Series

Manage with tools familiar to IT

Leverage your existing knowledge and investments

Cisco Catalyst™ IE9300





Reduce downtime

Proactive issue detection and guided remediation to always maintain a high-performing network



Increase efficiency

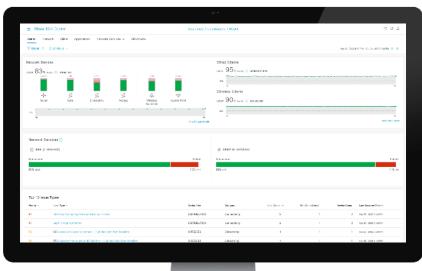
Automation and workflows simplify, empower, and streamline network management



Stay compliant

Track updates, ensure that software images comply, and remain aware of security advisories

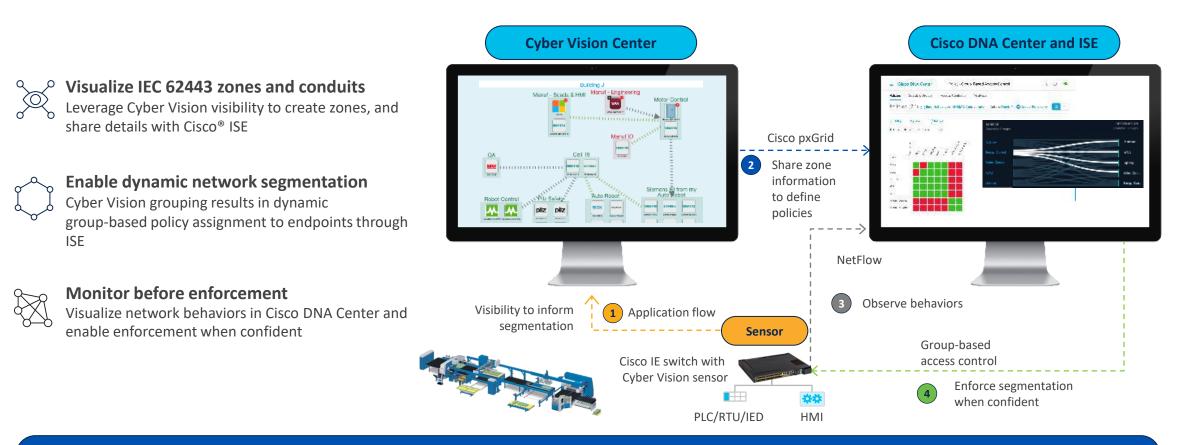
Cisco DNA Center





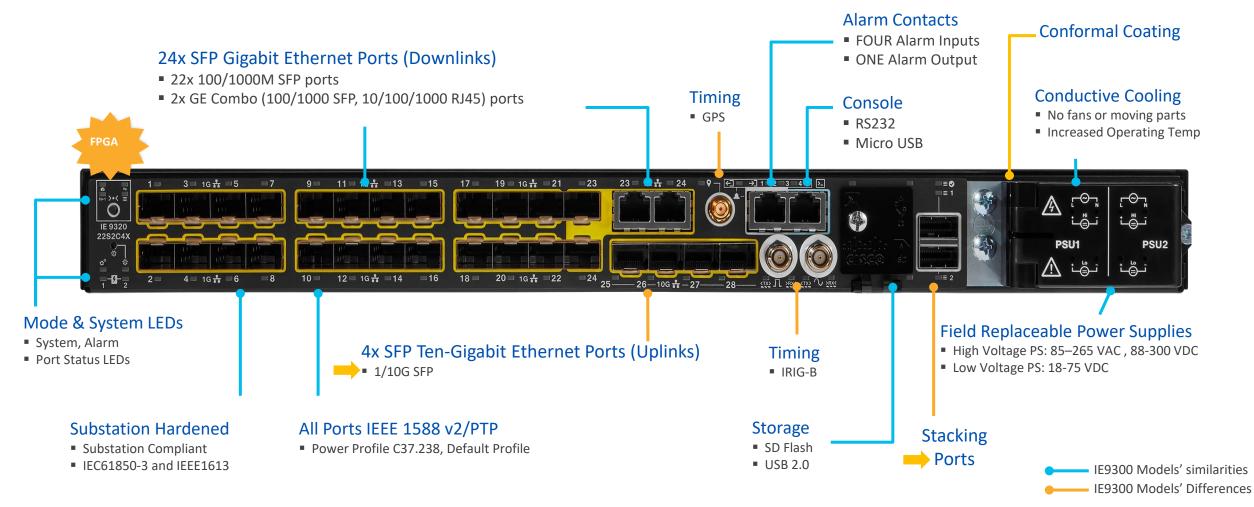
Streamline and secure operations networks with a modern, intelligent, and proven network controller

Segment your network with visibility and analytics with Cyber Vision, Cisco DNA Center, and Cisco Identity Services Engine (ISE)



Build a uniform, consistent switching fabric between your enterprise and operations network with SD-Access

Cisco IE-9320-22S2C4X Front Panel



IE9300 Key Supported Features per License

	Layer 2 Switching	802.1q, 802.1w, 802.1ab, 802.1s, 802.3ad, PVRST+, PVST+, RPVST, RSPAN, SPAN, STP, Storm Control, VTP v2/v3, 802.1Q Tunneling, L2TP, QinQ, Selective QinQ, EtherChannel	Qua	Quality of Service	802.1p, priority queuing, MQC, class based shaping & marking, egress policing, egress queuing and shaping, auto QoS, DSCP mapping and filtering, Low Latency Queuing
	Multicast	IGMP v1/v2/v3, IGMP Snooping, MLD Snooping			
	Management	WebUI, MIB, SNMP, syslog, DHCP server, NETCONF, Embedded Event Manager (EEM), PnP, Express Setup	Ι.	Layer 3 routing (Limited Scale)	Static routing, OSPF, OSPFv3, RIP, PBR
	Security	DHCPv6 Guard, IP Source Guard, IPv6 Destination Guard, IPv6 Neighbor Discovery Multicast Suppress, IPv6 Router Advertisement (RA) Guard, IPv6 Snooping, IPv6 Source/Prefix Guard, IPv6: Neighbor Discovery Duplicate Address Detection, Flexible Netflow, PACL, VACL, NEAT, HTTPS, RADIUS, TACACS+, X.509v3, Secure Shell SSH, DHCP Snooping, 802.1x, CISP, DAI, AAA, SCP, L2NAT , IEEE 802.1AE MACsec-128		Industrial Ethernet	Locate Switch, SwapDrive, GOOSE Messaging, SCADA Protocol Classification, PTP Default Profile & Power Profile 2011 , Power Profile 2017 , NTP to PTP, BFD, IOx (App hosting)
				Redundancy	Resilient Ethernet Protocol (REP) ring, Fast REP, HSR^{1,2}, PRP², MRP ¹
_		WACSEC-120		Automation	YANG, NETCONF, RESTCONF
	Layer 3 Routing	HSRP, BGP, EIGRP, IS-IS, MBGP, NSF		Security	Cisco TrustSec – SGACL, SGACL Logging, EAP-TLS, IEEE 802.1AE MACsec-256, L3NAT
	Virtualization	VRF-Lite		IP Multicast	AutoRP, MSDP, PIMv2, IPv6 Multicast with VRF-Lite support

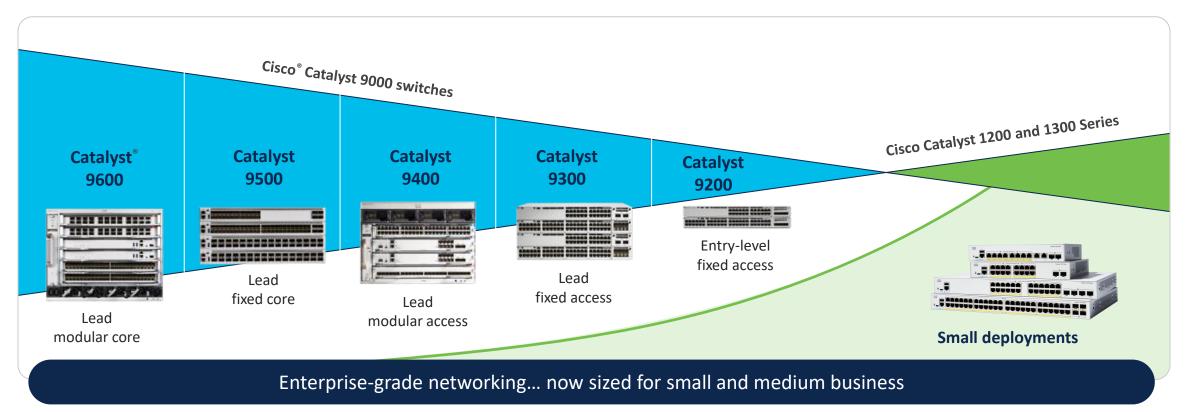
¹ Support planned / Roadmap

² Supported on IE-9320-26S2C and IE-9320-22S2C4X ONLY

Network Advantage

Network Essentials

Expanding the Cisco Catalyst switching



The Catalyst Pedigree

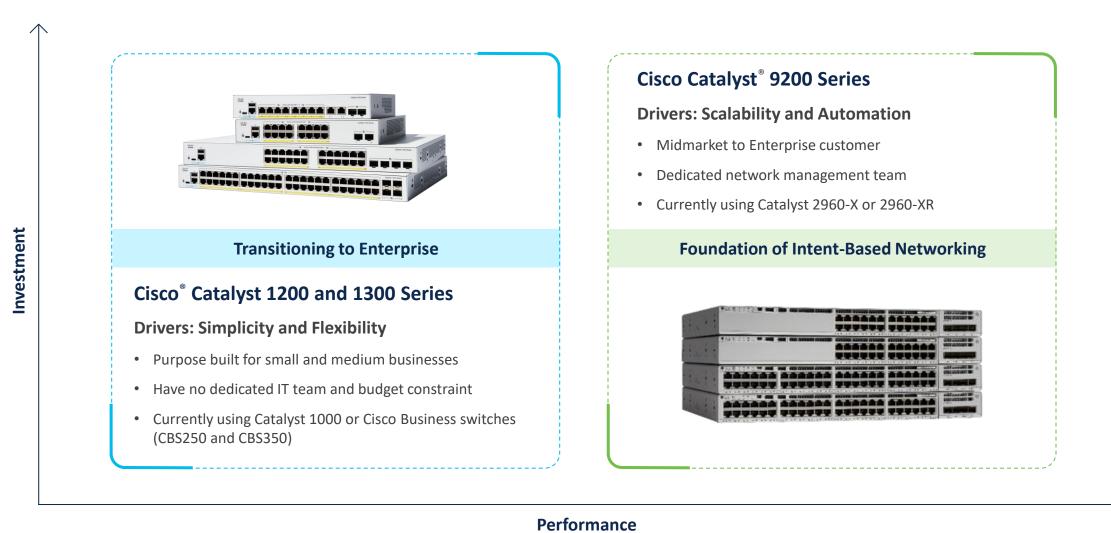
- Heritage and stability
- Trustworthy solutions
- Industry-leading support and community

Optimized for the growing business who needs to:

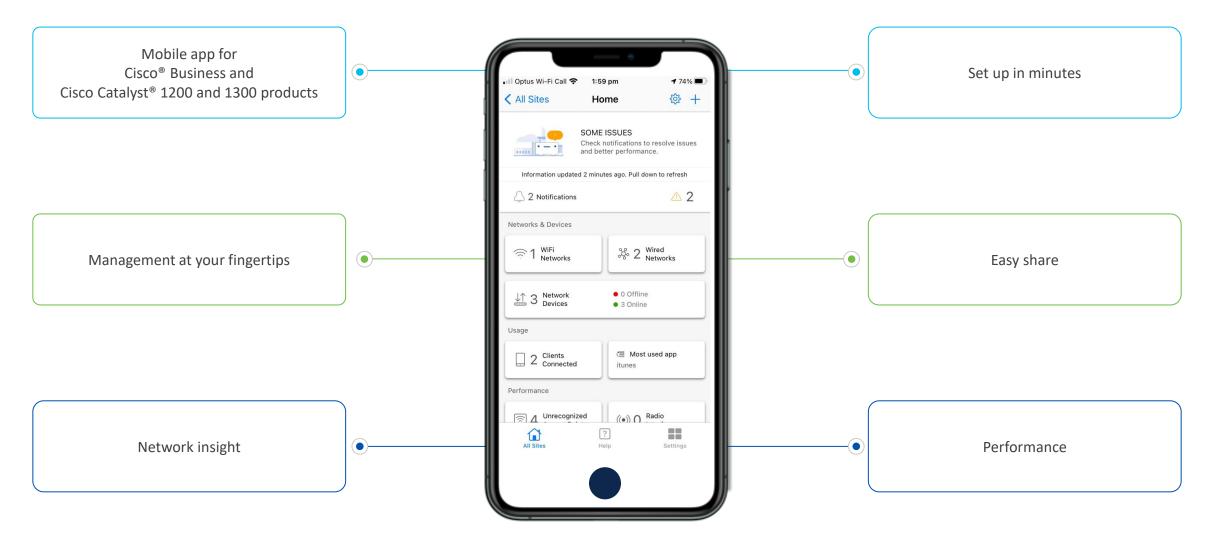


Catalyst switches for the emerging enterprise

Flexibility and simplicity for networks in transition

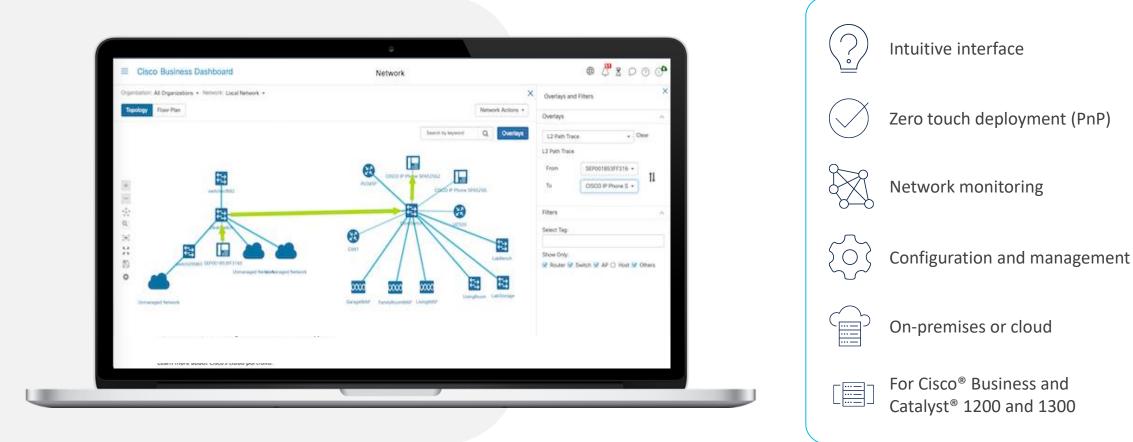


Cisco business mobile app



uluilu cisco

Cisco business dashboard



ılıılı cısco

Cisco Catalyst 1200 and 1300 Series switches: Comparison





Cisco® Catalyst® 1200 and 1300 Switch Family	Smart Managed Catalyst 1200	Fully Managed Catalyst 1300
Business Size	Small Business	SMB and Branch Office
Speed	1G with optional 10G uplinks	1G/multigigabit/10G with optional 10G uplinks
Number of Ports	8 to 48	8 to 48
Switch Layer	Layer 3 static	Layer 3 dynamic
Power over Ethernet	up to 375W	up to 740W
Web UI Management	\checkmark	\checkmark
Cisco Business Dashboard Cisco Plug and Play	Embedded probe	Embedded probe
Network Control (VLAN, QoS) and Security (ACL, 802.1x, DoS Prevention)	\checkmark	\checkmark
Advanced security	-	\checkmark
Advanced intelligence (Smartports and Network Wide Auto Voice)	\checkmark	\checkmark
Layer 3 Routing	Static	RIP
Stacking	-	Up to 8 switches (10G uplink models)
Warranty	Limited lifetime with return to factory replacement	Limited lifetime with next business day advance replacement
List Price	TBD	TBD

* 60W PoE supported on select ports and models

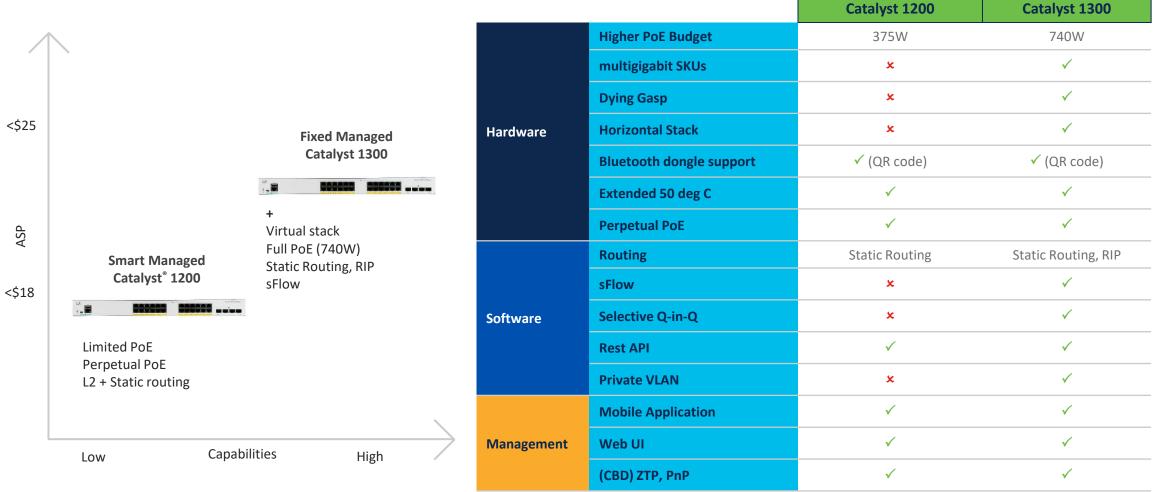
Switch product comparison





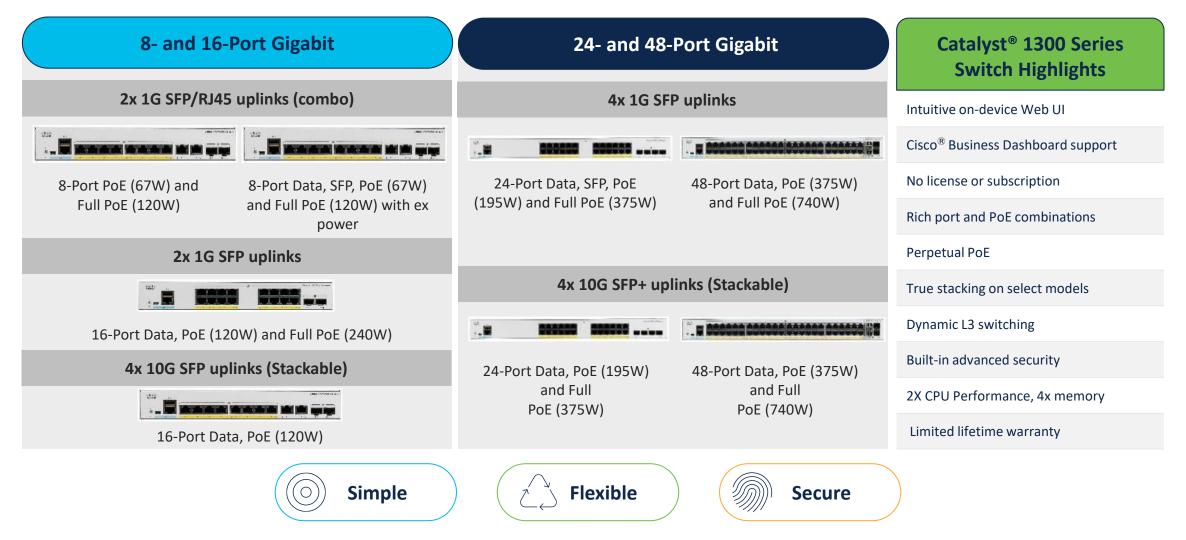
	Catalyst [®] 1200 Series	Catalyst 1300 Series
Switch management	Smart managed	Fully managed
Configuration	8 to 48 GE network ports with GE or 10G uplinks	8 to 48 GE network ports with GE or 10G uplinks
Power over Ethernet (PoE)	up to 375W	up to 740W
Stacking	No	Stackable up to 8 units (10G uplinks models)
Layer 3	Layer 3 static routing (limited scalability)	Layer 3 static routing, RIP
Scalability	8K MAC address 255 VLAN 32 IPv4 routes	16K MAC address 4K VLAN 990 IPv4 routes
Security	802.1X basic, ACL support, storm control, DoS prevention	802.1X including Dynamic VLAN (DVA), web-based authentication, MAC authentication, private VLAN, IPv6 First Hop Security, DHCP Snooping, IP Source Guard, dynamic ARP inspection, ACL support, storm control, DoS prevention
Network management	Cisco [®] Business Dashboard Cisco network PnP for zero touch deployment	Cisco Business Dashboard Cisco network PnP for zero touch deployment
Warranty	Limited lifetime with return to factory replacement	Enhanced limited lifetime with next business day advance replacement where available

Catalyst 1200 and 1300 Series switches: Feature laddering



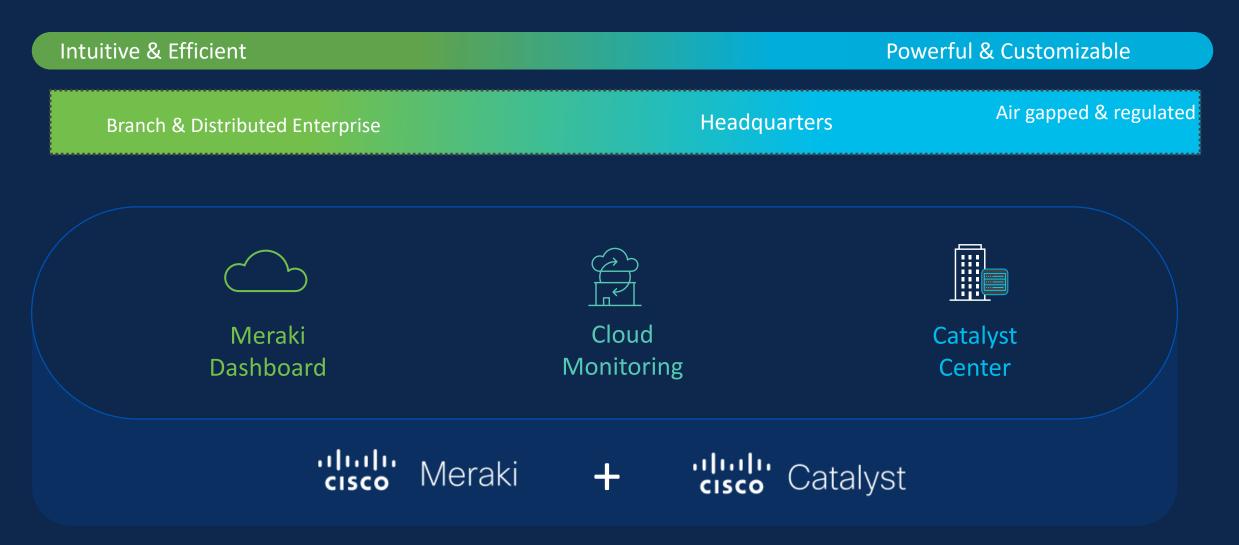
Cisco Catalyst 1300 Series switches

Key building block for any small and medium business network



* All except 24 Port Full PoE and 48 Port models

Cisco's Comprehensive Networking Portfolio



EFT/LA Registration Link:

https://salesconnect.cisco.com/EnterpriseNetworking/s/switching-efts



Switching IOS XE 17.13.1 Early Field Trial [EFT]

Inviting customers to try and test the most sought after software features before the general availability. Customers can share their feedback about what works (and what does not) directly with our Engineering teams. *Note: SW feature EFT will not provide loaner HW.*

Timelines:

EFT Start Date - Sept. 5th, 2023 EFT End Date - Oct. 17th, 2023

Contact mailer for customers: polaris-switching-beta@cisco.com

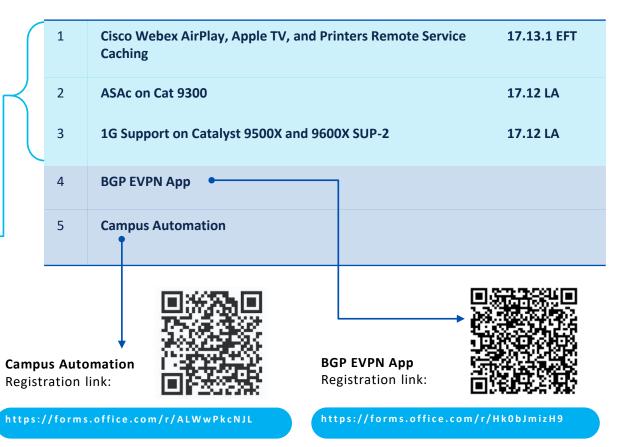
Switching IOS XE 17.13.1 Early Field Trial [EFT]

Cisco Webex AirPlay, Apple TV, and Printers Remote Service Caching
Supported Platforms - Catalyst 9200,9300/L/X, 9400/X, 9500/X, 9600/X SUP1/SUP2

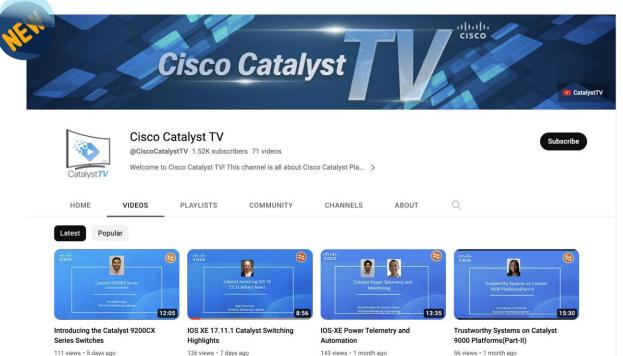
Modern network environments thrive on seamless service discovery, and we understand the importance of instantaneous mDNS service responses for Cisco Webex AirPlay, Apple TV, and Printers. With the introduction of dynamic caching, Catalyst 9000 series switches will dynamically cache key services received from Cisco DNA Center. This will lead to an exceptional improvement in user experiences for local Wired and Fabric Wireless users.

Register here: https://forms.office.com/r/rrL6e9dwjH

Features



Useful Resources

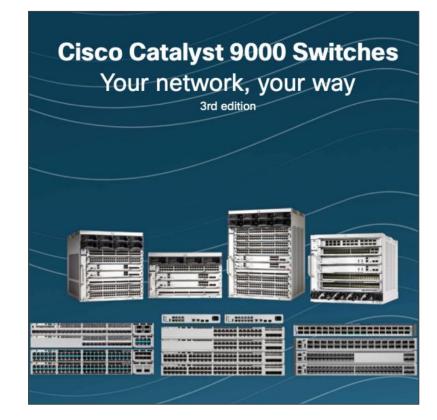




This channel is all about Cisco Catalyst Platforms and its services and software solutions. Subscribe and Explore Playlists <u>Catalyst</u> <u>Switching</u> and <u>Catalyst Programmability & Automation</u> for videos and demos by the Technical Marketing Engineers on latest, relevant and exciting topics.



https://www.youtube.com/c/CiscoCatalystTV





Scan to get your C9K E-Book

<u>Cisco Catalyst 9000 switches, Your</u> <u>Network, Your Way (3rd Edition)</u> <u>Cisco SD-Access for Industry Verticals,</u> <u>From Design to Migration</u>

IIIIICISCOThe bridge to possible