







HP ProCurve PoE and UC Switch Selection Guide

HP ProCurve switch products	Fixed-Port				Modular	
	2520 series	2610 series and 2615-8-PoE switch	2910a series and 2915-8G-PoE switch	3500 series	5400zl series	8200zl series
Ideal environment	 Ideal for small and growing businesses seeking cost-effective switches with integrated PoE and management capabilities	 Ideal for enterprise edge, remote branch offices, and converged networks requiring 10/100 access speeds	 Ideal for enterprise edge, remote branch offices, and converged networks requiring Gigabit access speeds	 Ideal for those seeking performance, security, mobility, and convergence capability in a stackable form factor	 Ideal for environments driven by performance, security, mobility, and convergence capability	 Campus core, enterprise distribution, and mission-critical, high-capacity, access layer deployments
Customers' needs	<ul style="list-style-type: none"> PoE capability for powering IP phones, wireless APs, and/or video cameras Managed switch with Layer 2 functionality with either Gigabit or Fast Ethernet connectivity Optional fiber uplink capability with SFP slots Up to 8 or 24 ports of PoE connectivity 	<ul style="list-style-type: none"> Advanced convergence features for today's VoIP, wireless networks, and video surveillance functionally at wirespeed 10/100 performance Scalable PoE deployment Up to 48 ports of PoE connectivity Robust network connectivity with standards-based 10/100 connectivity with Gigabit uplinks Granular control of network with more access security, PoE, and traffic monitoring Easy integration and management 	<ul style="list-style-type: none"> Offers the most flexible and easy-to-deploy uplinks in its class. Together with static and RIP IPv4 routing, robust security and management, enterprise-class features, free lifetime warranty*, and free software updates Cost-effective, scalable solution for customers who are building high-performance networks High-performance Gigabit access switch Four optional 10-Gigabit ports (CX4 and/or SFP)** IEEE 802.3af/802.3at functionality (PoE/PoE+**) IPv6 host capability to provide transition from IPv4 and forwarding of IPv6 multicast traffic 	<ul style="list-style-type: none"> Highly scalable, enterprise-class switches that support a wide range of applications from Gigabit to the desktop, PoE for IP phones, ACL for access security, and virus throttling to prevent downtime Granular control of network user access and security policy to secure company information assets Form-factor choices that can fit into different network environments with consistent features, capability, and management Switches with Gigabit interfaces, 10-GbE uplink, and room for future software updates Upgradable to VRRP and OSPF for mission-critical UC deployments IPv6 ready Common software base for 3500/5400/8200 for ease of management 	<ul style="list-style-type: none"> Highly scalable, enterprise-class switches that support a wide range of applications from Gigabit to the desktop, PoE for IP phones, ACL for access security, and virus throttling to prevent downtime Granular control of network user access and security policy to secure company information assets Form-factor choices that can fit into different network environments with consistent features, capability, and management Switches with Gigabit interfaces, 10-GbE uplink, room for future software updates, and scalability to different configurations for investment protection Upgradable to VRRP and OSPF for mission-critical UC deployments IPv6 ready Common software base for 3500/5400/8200 for ease of management 	<ul style="list-style-type: none"> Platform and software high-availability features Comprehensive hardware and software high-availability features Scalable, wire-speed Gigabit and high-density 10-GbE connectivity Long-term investment protection via software and hardware upgradability Feature flexibility (e.g., QoS controls, Gigabit PoE) to enable deployment in a wide range of deployment models Management simplicity and reduced complexity Form-factor choices that can fit into different network environments with consistent features, capability, and management
Competitive products	<ul style="list-style-type: none"> NETGEAR FSM72x/GSM72x Series D-Link DES-3xxx/DGS-3xxx Series Cisco Small Business SRW Series Cisco Catalyst Express 5xx Series Cisco Catalyst 2960 LAN Lite Series Cisco Small Business Pro ESW Series 	<ul style="list-style-type: none"> Cisco Catalyst 2960 Series Nortel 4500 Series 	<ul style="list-style-type: none"> Cisco Catalyst 2960G Series Nortel 4500G Series 	<ul style="list-style-type: none"> Cisco Catalyst 3560 & 3750 Series Nortel Ethernet Switch 5000 Series Extreme Summit X450 Series NETGEAR GSM7312 NETGEAR GSM7324 D-Link DGS-3300 Series D-Link DXS-3300 Series 	<ul style="list-style-type: none"> Cisco Catalyst 3560 & 3750 Series Cisco Catalyst 4500 Series Extreme BlackDiamond 8800 Extreme BlackDiamond 6808 Extreme Summit X450 Series Foundry FastIron SuperX Nortel Ethernet Switch 5000 NETGEAR GSM7312, GSM7324 D-Link DGS-3300 and DXS-3300 Series 	<ul style="list-style-type: none"> Cisco Catalyst 6500 Series Cisco Catalyst 4500 Series Foundry FastIron SuperX Extreme BlackDiamond 8800 Nortel Ethernet Routing Switch 8600 Series

*HP ProCurve Lifetime Warranty

- Next-business-day advance replacement included free of charge
- Free telephone and Web support
- Free software updates

Why choose HP ProCurve?

- Choice and flexibility**—performance and interoperability
- Advanced technology**—30 years of leadership
- Security and trust**—safe and field-tested solutions
- Proven reliability**—backed by a lifetime warranty
- Return on IT investment**—easy to install and use

Standards-based convergence features

PoE (IEEE 802.3af) & PoE+ (IEEE 802.3at)—Ethernet with power, ideal for phones, cameras, and more	Wi-Fi WMM—wireless QoS enhancements to support multimedia transport
LLDP-MED and RFC 4675—automates configuration of phones and network settings	802.11e APSD—allows wireless VoIP handsets to support more efficient power management
LLDP-MED fine-grained power management—delivers just the right amount of PoE to save energy	10-GbE uplink—aggregating to fast pipes ensures optimal application performance
NAC/802.1X—identity-driven security at the edge of the network where users connect	sFlow—standards-based sampling technology allows monitoring of network performance
IGMP & PIM DM/SM—manages efficient delivery of video and eliminates unnecessary network traffic	SVP—SpectralLink Voice Priority is an open, straightforward voice QoS approach

* For as long as you own the product, with next-business-day advance replacement (available in most countries). The following hardware products have a five-year hardware warranty for the disk drive and lifetime hardware warranty (for as long as you own the product) for the rest of the module: HP ProCurve ONE Services zl Module, HP ProCurve Threat Management Services zl Module, and HP ProCurve MSM765zl Mobility Controller. The following hardware products and their related series modules have a one-year hardware warranty with extensions available: HP ProCurve Routing Switch 9300m series, HP ProCurve Switch 8100zl series, HP ProCurve Network Access Controller 800, and HP ProCurve DCM Controller. The following hardware products have a one-year hardware warranty with extensions available: HP ProCurve M111 Client Bridge, HP ProCurve MSM3xx-R Access Points, HP ProCurve MSM7xx Mobility and Access Controllers, HP ProCurve RF Manager IDS/IPS Systems, HP ProCurve MSM Power Supplies, HP ProCurve 1-Port Power Injector, HP ProCurve CNMS Appliances, and HP ProCurve MSM317 Access Device. Standalone software, upgrades, or licenses may have a different warranty duration. For details, refer to the ProCurve Software License, Warranty, and Support booklet at www.procurve.com/warranty.

		Fixed-Port								Modular		
Subcategory	Feature	2520-8-PoE/ 2520-24-PoE/ 2520G-8-PoE/ 2520G-24-PoE	2610-24/ 12PWR	2610-24-PWR/ 2610-48-PWR	2615-8-PoE	2910al-24G-PoE+/ 2910al-48G-PoE+	2915-8G-PoE	3500-24-PoE/ 3500-48-PoE	3500yl-24G-PWR/ 3500yl-48G-PWR	5406zl	5412zl	8212zl/ 8206zl
Product number		J9137A/J9138A/ J9298A/J9299A	J9086A	J9087A/J9089A		J9146A/J9148A		J9471A/J9473A	J8692A/J8693A	J8697A J8699A J9447A	J8698A J8700A J9448A	J8715B/J9475A
Ports, media, and PoE	IEEE 802.3af Power over Ethernet	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	IEEE 802.3at Power over Ethernet Plus					✓				✓	✓	✓
	PoE 10/100 ports	8/24/0/0	12 (of 24)	24/48	8			24/48				
	PoE 10/100/1000 ports	0/0/8/24					8		24/48			
	PoE/PoE+ 10/100 ports									144 ⁽²⁾	288 ⁽²⁾	288/144 ⁽²⁾
	PoE/PoE+ 10/100/1000 ports					24/48				144 ⁽²⁾	288 ⁽²⁾	288/144 ⁽²⁾
	Pre-standard PoE support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Maximum PoE power	67 W/195 W/67 W/195 W	125 W	377 W	67 W	382 W	67 W	398 W	398 W	1800 W	3600 W	3600 W/1800 W
	Maximum PoE power with EPS		533 W	785 W				796 W	796 W	3600 W	5400 W	5400 W/3600 W
HP ProCurve/IEEE Auto-MDIX	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Uplink flexibility	1-GbE 1000Base-T/Mini-GBIC	2/4/2/4 ⁽³⁾	4	4	2	4/4 ⁽³⁾	2	4/4 ⁽³⁾	4/4 ⁽³⁾			
	10-GbE ports					4				24	48	48/24
	Module slots					2			1	6	12	12/6
Performance	Routing/Switching capacity	5.6/8.4/20/48 Gbps	12.8 Gbps	12.8/17.6 Gbps	5.6 Gbps	128/176 Gbps	20 Gbps	12.0/16.8 Gbps	101.8/149.8 Gbps	322.8 Gbps	645.6 Gbps	645.6/322.8 Gbps
Security	Multi-user IEEE 802.1X (per port)	2	8	8	2	8	2	32	32	32	32	32
	Multi-role access control (IEEE 802.1X, MAC authentication, Web authentication)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Dynamic ARP protection		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DHCP protection		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Dynamic IP lockdown				✓	✓	✓	✓	✓	✓	✓	✓
	Virus throttling							✓	✓	✓	✓	✓
Management	HP ProCurve Manager Plus 3.0 support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Remote Intelligent Mirroring (based on ACL, port, MAC, or VLAN)							✓	✓	✓	✓	✓
	RMON, XRMON, sFlow		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	LLDP-MED (Media Endpoint Devices)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	LLDP-MED fine-grained power control	✓			✓	✓	✓	✓	✓	✓	✓	✓
	RFC 4675 RADIUS VLAN for voice							✓	✓	✓	✓	✓
	Command authorization	✓				✓	✓	✓	✓	✓	✓	✓
Resilience and high availability	Redundant switch fabric and management module											✓
	Hot-swappable modules									✓	✓	✓
	Virtual Router Redundancy Protocol							✓ ⁽¹⁾	✓ ⁽¹⁾	✓ ⁽¹⁾	✓ ⁽¹⁾	✓ ⁽¹⁾
	IEEE 802.3ad Link Aggregation Control Protocol (LACP)—links per trunk	8	8	8	8	8	8	8	8	8	8	8
	ProCurve trunking—links per trunk	8	24	24	8	24	8	36	36	36	36	36
	IEEE 802.1s Multiple Spanning Tree Protocol (including STP, RSTP)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QoS	HW queues per port	2 or 4	4	4	2 or 4	8	2 or 4	8	8	8	8	8
	Honor DSCP or IEEE 802.1p priority	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Assign IEEE 802.1p priority	Classifier	Classifier	Classifier	Classifier	Classifier	Classifier	Classifier	Classifier	Classifier	Classifier	Classifier
	Remap DSCP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Guaranteed minimum bandwidth per port, per queue							✓	✓	✓	✓	✓
Multicast	Prioritization by IP address and UDP/TCP port ranges							✓	✓	✓	✓	✓
	Data-Driven IGMP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PIM Multicast Routing							SM ⁽¹⁾ & DM ⁽¹⁾	SM ⁽¹⁾ & DM ⁽¹⁾	SM ⁽¹⁾ & DM ⁽¹⁾	SM ⁽¹⁾ & DM ⁽¹⁾	SM ⁽¹⁾ & DM ⁽¹⁾

⁽¹⁾ Requires premium license ⁽²⁾ 10/100 or 10/100/100 PoE/PoE+ modules ⁽³⁾ Dual-personality ports
For a complete list of these products' features and other HP ProCurve products, such as intelligent edge switches and WAN, mobility, and network management, please visit www.procurve.com/convergence



Get connected
www.hp.com/go/getconnected
Get the insider view on tech trends, alerts, and HP solutions for better business outcomes

Share with colleagues

