HP ProCurve PoE and UC Switch Selection Guide

	Fixed-Port				Modular	
HP ProCurve switch products	**2520 series**	**2610 series and 2615-8-PoE switch**	**2910al 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	• 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	• 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	• 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	• 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	• 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	• 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	• 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	• Cisco Catalyst 2960 Series • Nortel 4500 Series	• Cisco Catalyst 2960G Series • Nortel 4500G Series **2910 series only	• 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	• 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	• 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—SpectraLink Voice Priority is an open, straightforward voice QoS approach

		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				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							✓	✓	✓	✓	✓
	Prioritization by IP address and UDP/TCP port ranges							✓	✓	✓	✓	✓
Multicast	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]

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