



- The ProCurve Lifetime Warranty*, with next-business-day advance replacement included free of charge
- Free telephone and Web support
- Free software updates

ProCurve Networking by HP

Data Center Device Selection Guide

Products	Stackables			Chassis products	
	2900 series	3500yl series	6200yl series	5400zl series	8200zl series
Product key messages	<ul style="list-style-type: none"> • Basic functionality • Cost enhanced 	<ul style="list-style-type: none"> • Intelligent edge • Flexibility • Improved density 	<ul style="list-style-type: none"> • Server edge aggregation 	<ul style="list-style-type: none"> • Flexibility and scalability • Investment protection • Resiliency • Reduced OpEx 	<ul style="list-style-type: none"> • High performance • Highly available architecture • Flexibility and scalability • Investment protection • Reduced OpEx
Ideal environment	Ideal for customers seeking affordable data center aggregation where upgradability and future-proofing is less of a priority.	Ideal for customers that demand performance, higher-density data center aggregation, and the option of future-proofing their environments with upgrades to the latest Layer 2/3/4 capability.	Ideal for customers that demand performance, fiber-based aggregation, and the option of future-proofing their environments with upgrades to the latest Layer 2/3/4 capability.	Ideal for customers that demand performance and redundancy for applications such as top-of-rack aggregation or distribution layer capabilities, as well as those that value future-proofing their environments with upgrades to the latest Layer 2/3/4 capability.	Ideal for customers that demand security with the highest levels of performance and redundancy for data center distribution layer and core networking capabilities, as well as those that value future-proofing their environments to upgrade to the latest layer 2/3/4 capability.
Target application	<ul style="list-style-type: none"> • Top-of-rack server edge 	<ul style="list-style-type: none"> • Top-of-rack server edge 	<ul style="list-style-type: none"> • Top-of-rack server edge 	<ul style="list-style-type: none"> • Top-of-rack server edge • Data center distribution layer 	<ul style="list-style-type: none"> • Data center distribution layer • Data center core networking
Customer needs	<ul style="list-style-type: none"> • Basic Layer 2/3/4 switches that offer cost-effective high performance in a stackable (24-port and 48-port) form factor • Integrated 10-Gigabit uplinks • VLAN capabilities • Layer 3 capabilities, including static and RIP routing 	<ul style="list-style-type: none"> • Advanced Layer 2/3/4 switches that offer intelligent edge capability in a stackable (24-port and 48-port) form factor • 10-Gigabit uplinks • Advanced VLAN capabilities with QinQ tagging • Advanced Layer 3 capabilities, including static, RIP, OSPF routing, and PIM SM/DM multicast support • Flexible ACL structures with filtering rules on Layer 2/3/4 addresses and protocols 	<ul style="list-style-type: none"> • Advanced Layer 2/3/4 switches that offer intelligent edge capability in a stackable (24-port and 48-port) form factor • 10-Gigabit uplinks • Advanced VLAN capabilities with QinQ tagging • Advanced Layer 3 capabilities, including static, RIP, OSPF routing, and PIM SM/DM multicast support • Flexible ACL structures with filtering rules on Layer 2/3/4 addresses and protocols 	<ul style="list-style-type: none"> • Advanced Layer 2/3/4 switches that offer intelligent edge capability in a chassis form factor that offers superior flexibility and scalability with a range of interface options • High-availability network configurations that demand redundant power supplies and customer replaceable fan trays • 10-Gigabit scalability • Advanced VLAN capabilities with QinQ tagging • Advanced Layer 3 capabilities, including static, RIP, OSPF routing, and PIM SM/DM multicast support • Flexible ACL structures with filtering rules on Layer 2/3/4 addresses and protocols 	<ul style="list-style-type: none"> • Advanced Layer 2/3/4 switches that offer intelligent edge capability in a chassis form factor that offers superior availability, flexibility, and scalability with range of interface options • Mission-critical application support that demands the highest availability designs and configurations, including redundant fabric modules, power supplies, and customer-replaceable fan trays • 10-Gigabit scalability • Advanced VLAN capabilities with QinQ tagging • Advanced Layer 3 capabilities, including static, RIP, OSPF routing, and PIM SM/DM multicast support • Flexible ACL structures with filtering rules on Layer 2/3/4 addresses and protocols

Why choose 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

* For as long as you own the product, with next-business-day advance replacement (available in most countries). The following hardware products and their related family modules have a one-year warranty with extensions available: The ProCurve Routing Switch 9300m Series, ProCurve Switch 8100fl Series, ProCurve Access Control Server 745wl, and ProCurve Network Access Controller 800. Standalone software may have a different warranty duration. For details, refer to the ProCurve Software License, Warranty, and Support booklet at www.hp.com/rnd/support/warranty/index.htm

	Stackables			Chassis products		
	2900-24G 2900-48G	3500yl-24G-PWR 3500yl-48G-PWR	6200yl-24G-mGBIC	5406zl	5412zl	8212zl
Product number	J9049A J9050A	J8692A J8693A	J8992A	J8697A—Chassis J8699A—48G bundle	J8698A—Chassis J8700A—96G bundle	J8715A
Product design						
Form factor	1U	1U	1U	4U	7U	9U
Memory (Flash/SDRAM)	128 MB/256 MB	128 MB/256 MB	128 MB/256 MB	128 MB/256 MB	128 MB/256 MB	128 MB/256 MB
Module slots	—	1	1	6	12	12
Connectivity						
10/100/1000	20/44	20/44	—	Up to 144	Up to 288	Up to 288
Mini-GBIC	—	—	24	Up to 144	Up to 288	Up to 288
10-GbE X2/CX4	2/2	2/2	2/2	Up to 24	Up to 48	Up to 48
Dual personality (10/100/1000/mini-GBIC)	4/4	4/4	—	—	—	—
Performance						
Fabric capacity	115/173 Gbps	115/173 Gbps	115 Gbps	346 Gbps	692 Gbps	692 Gbps
1-Gigabit latency (FIFO 64-byte packet)	<3.7 microseconds	<3.7 microseconds	<3.7 microseconds	<3.7 microseconds	<3.7 microseconds	<3.7 microseconds
10-Gigabit latency (FIFO 64-byte packet)	<2.1 microseconds	<2.1 microseconds	<2.1 microseconds	<2.1 microseconds	<2.1 microseconds	<2.1 microseconds
Throughput	74 Mpps/110 Mpps	74 Mpps/110 Mpps	74 Mpps	214 Mpps	428 Mpps	428 Mpps
Routing table size (max. entries)	2,000	10,000	10,000	10,000	10,000	10,000
Security						
IEEE 802.1X	X	X	X	X	X	X
Access control (MAC/Web Auth)	X	X	X	X	X	X
Dynamic ARP protection	—	X	X	X	X	X
DHCP protection media	—	X	X	X	X	X
Dynamic IP lockdown	—	X	X	X	X	X
Virus throttling	—	X	X	X	X	X
Management						
ProCurve Manager Plus 2.3	X	X	X	X	X	X
Remote port mirroring (based on ACL, port, MAC, or VLAN)	X	X	X	X	X	X
RMON, XRMON, and sFlow	X	X	X	X	X	X
IEEE 802.1AB—Link Layer Discovery Protocol (LLDP)	X	X	X	X	X	X
RADIUS (AAA support)	X	X	X	X	X	X
TACACS+	X	X	X	X	X	X
High availability						
Redundant fabric and management	—	—	—	—	—	X
Hot-swappable modules	—	—	—	X	X	X
Redundant power supplies	Optional RPS	Optional RPS	Optional RPS	X	X	X
Hot-swappable fan trays	Replaceable only	Replaceable only	Replaceable only	X	X	X
Switch meshing	—	X	X	X	X	X
VRRP	—	X	X	X	X	X
IEEE 802.ad (LACP)	X	X	X	X	X	X
ProCurve trunking—links per trunk	X	X	X	X	X	X
IEEE 802.1s (STP, RSTP, MSTP)	X	X	X	X	X	X
QoS						
IEEE 802.1p	8 priority levels/4 queues	8 priority levels/8 queues	8 priority levels/8 queues	8 priority levels/8 queues	8 priority levels/8 queues	8 priority levels/8 queues
Class of Service (CoS)	X	X	X	X	X	X
Layer 4 priority	X	X	X	X	X	X
Advanced switching, routing and IP services						
IEEE 802.1Q VLAN tagging	4,096 IDs/256 VLANs	4,096 IDs/2,048 VLANs	4,096 IDs/2,048 VLANs	4,096 IDs/2,048 VLANs	4,096 IDs/2,048 VLANs	4,096 IDs/2,048 VLANs
Jumbo Frames	X	X	X	X	X	X
Static routing	X	X	X	X	X	X
RIP	X	X	X	X	X	X
OSPF*	—	X	X	X	X	X
IPv6 host	X	X	X	X	X	X
IGMP	X	X	X	X	X	X
PIM multicast routing*	—	X	X	X	X	X

* Available via Premium Software License