# hp procurve switch 4108gl

High-performance, managed modular 10/100/1000T workgroup switches, targeted to meet high port density needs in the wiring-closet environment. Fast Path Technology on the HP Procurve switch 4108gl enables intra-module switching at wire-speed. Ideal for growing organizations which need to increase their performance to key network services (Internet, application servers, multimedia telephony).

**NEW hp procurve switch 4108gl (J4865A)**
With 8 open module slots

## accessories

**NEW modules:**
HP Procurve switch gl 10/100-TX module (J4862A)
HP Procurve switch gl 100/1000-T module (J4863A)
HP Procurve switch gl transceiver module (J4864A)
HP Procurve gl/xl switch redundant power supply (J4839A)

**transceivers:**
HP Procurve Gigabit SX transceiver (J4131A)
HP Procurve Gigabit LX transceiver (J4132A)
HP Procurve 100/1000-T transceiver (J4834A)
HP Procurve 100-FX SC transceiver (J4853A)
HP Procurve switch Gigabit stacking kit (J4116A)

For accessory information, including port counts, IEEE specs, and compatibility, see pages 20–23.

## features and benefits

- **Fast Path Technology:** enables intra-module traffic to be switched at wire-speed, providing a total throughput of up to 71.4Mpps
- **Fast switch fabric:** high performance switch fabric (36.6 Gbps)
- **Port density:** highest port density in the industry (max. 192 10/100 ports, 48 Gigabit ports—i.e., 38 10/100 ports per rack unit)
- **802.1x and RADIUS network login:** controls access and provides authentication and accountability for network security
- **802.1w Fast Convergence Spanning Tree:** increases network availabilty by decreasing recovery time when a link fails
- **SSH (Secure Shell):** secures remote access connections over IP networks by encrypting all transmitted data
- **Switch MONitoring (SMON):** provides standardized port monitor configuration
- **Port monitoring:** allows you to monitor traffic using a switched port so you can view several ports at one time with a network analyzer
- **Web interface:** allows you to configure the switch from any Web browser on the network
- **VLANs:** supports up to 30 port-based VLANs, GVRP, and 802.1Q VLAN tagging
- **Class of Service:** allows traffic prioritization based on 802.1p field (2 queues)
- **IP multicast (IGMP):** prevents flooding of IP multicast traffic
- **Hot-swappable modules:** allow you to add or swap modules without interrupting the network
- **Optional redundant power supply:** provides uninterrupted power
- **Spanning Tree Protocol:** provides redundant links while preventing network loops
- **IEEE 802.3ad standard trunking:** allows redundant connections between devices to be combined for more aggregate bandwidth between devices supporting LACP (Link Aggregation Control Protocol). Supports up to 6 trunks, with 4 ports per trunk; trunking across modules is possible
- **TACACS+:** eases administration of switch/management security by using a password authentication server

## specifications**

**Ports**
Switch 4108gl:
Eight open module slots
Switch 4108gl bundle:
72 RJ-45 10/100-TX ports (IEEE 802.3 type 10Base-T; 802.3u type 100Base-TX), 3 open transceiver slots, 4 open module slots
Both:
One RS-232C DB-9 console port

**Physical Characteristics**
Dimensions
Width: 44.2 cm (17.4 in)
Depth: 39.0 cm (15.3 in)
Height: 22.7 cm (9.0 in)
Weight
Switch 4108gl: 9.4 kg (20.7 lbs)
Switch 4108gl bundle: 10.4 kg (22.9 lbs) includes one GL Transceiver Module and three GL 10/100-TX Modules

**Memory & Processor**
Fabric: Motorola PowerPC @ 200 MHz, 8 MB Flash, 32 MB SDRAM
Module: IDT MIPS32 @ 125 MHz, 512 KB Flash, 8 MB SDRAM
Packet Buffer Size
Fabric: 1 MB
Gig Module: 512 KB
10/100-TX Module: 16 MB

**Mounting**
Mounts to an EIA-standard 19-in. telco rack or equipment cabinet (hardware included)
Wall mounting (hardware included)

**Management**
HP Toptools for hubs and switches included
SNMPv1/v2c
RFC 1493 Bridge MIB
RFC 1213 MIB II
RFC 1354 IP forwarding table MIB
RFC 2037 Entity MIB
RFC 1573 Evolution of Interface
RFC 1643 Ethernet MIB
RFC 1757 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm), and 9 (events)
RFC 2021 RMON probe configuration (RMON v2)
RFC 2239 802.3 MAU MIB
RFC 2613 SMON
HTML, console, and telnet management
RFC 2030 Simple Network Time Protocol

**Performance**
Latency: <10 Ks (FIFO)
Throughput: 21.6 Mpps–71.4 Mpps (based on 64-byte packets)
Switch fabric speed: 36.6 Gbps
Address table size: 8,000

**Some product specifications are subject to change. For up-to-date information please visit www.hp.com/go/hpprocurve

What is Fast Path Technology?
Fast Path Technology is the architecture employed in the HP Procurve switch 4108gl that allows it to provide the highest performance in its class. Each connectivity module is a switch in and of itself, providing wire speed "local switching". Traffic that originates and is destined for ports on the same module is switched at full media speed without going through the central switching fabric!

**hp procurve switch 4108gl bundle**

## features and benefits (continued)

- **Cisco Fast EtherChannel:** provides higher throughput to other devices that support FEC
- **Cisco Discovery Protocol (CDP):** enables real-time mapping of end nodes to switch ports
- **Lifetime warranty:** for as long as you own the product, with next business day advance replacement (available in most countries)
- **Port security:** prevents unauthorized access using MAC address lockdown
- **Stacking capability:** single IP address management for a virtual stack of up to 16 switches including the 1600m, 2400m, 2424m, 2512, 2524, 4000m, 4108gl, and 8000m
- **Friendly port names:** eases configuration management
- **Layer 3 software upgradability:** enables VLAN to VLAN communications and routes to other IP networks*
- **Find, fix, and inform:** automatically finds common network problems such as a chattering NIC or bad cable, fixes the problem if it can, and informs the network administrator of the problem, status, and actions taken or recommended

NEW **hp procurve switch 4108gl bundle (J4861A)**
With 72 10/100Base-TX autosensing ports, a 3-port transceiver module (transceivers ordered separately) for uplinks, and 4 open module slots

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*Check www.hp.com/go/hpprocurve for availability of this software update

## specifications (continued)**

**Environment**
Operating
– Temperature: 0°C to 55°C (32°F to 131°F)
– Relative humidity: 15% to 95% at 40°C (104°F), noncondensing
Non-operating/storage
– Temperature: –40°C to 70°C (–40°F to 158°F)
– Relative humidity: 15% to 95% at 65°C (149°F), noncondensing
Maximum altitude: 4.6 Km

**Electrical Characteristics**
The switch 4108gl automatically adjusts to any voltage between 100–127 VAC and 200–240 VAC and either 50 or 60 Hz
AC voltage: 100–127 VAC 200–240 VAC
Maximum current: 8.0 A 3.8 A
Frequency range: 50–60 Hz

**Communications**
IEEE 802.Q VLAN tagging; GVRP; IEEE 802.1q priority; IEEE 802.1D Spanning Tree; IEEE 802.3x Flow Control; IEEE 802.3ad Link Aggregation Control Protocol; IEEE 802.3z; IEEE 802-3ab 1000Base-T; 1000Base-X; RFC 2236 IGMP v2; RFC 783 TFTP; RFC 1542 BootP; RFC 951 BootP; RFC 854 Telnet; RFC 768 UDP; RFC 792 ICMP; RFC 793 TCP; RFC 826 ARP; 802.1x; 802.1p; 802.1w

**Safety**
EN60950/IEC 950; cUL (CSA950); NOM-019-SCFI-1994; UL 1950 3rd Edition

**Emissions**
EMI: CISPR-22 (1997) Class A

**Immunity**
Generic: EN 55024 (1997)
ESD: IEC/EN 61000-4-2 (1995); 4 kV CD, 8 kV AD; HP ENV.765.002 10 kV-25 kV AD
Radiated: IEC/EN 61000-4-3 (1995), 3V/m
EFT/Burst: IEC/EN 61000-4-4 1kV power, .5kV signal
Surge: IEC/EN 61000-4-5 1kV/2kV AC
Conducted: IEC/EN 61000-4-6 (1996), 3V
Power Frequency Magnetic Field: IEC/EN 61000-4-8 (1993), 1 A/m, 50 or 60 Hz
Voltage dips or interruptions: IEC/EN 61000-4-11 (1994), >95% reduction, 0.5 period, 30% reduction, 25 periods
Harmonics and flicker: IEC/EN 61000-3-2, IEC/EN 61000-3-3

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