

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Keysight / Agilent J4853A* at our website: ***Click HERE***

hp procurve switch 4100gl series

The HP Procurve Switch 4100gl series are convergence-ready and easy to use in compact 8-slot and new 4-slot modular form factors. Combined with HP's Fast Path Technology, these switches also provide high-performance, reliable connectivity for a growing network. The Switch 4100gl series are the low-cost, modular alternative to stackable switches and include free software upgrades and a lifetime warranty.



hp procurve switch 4108gl bundle (J4861A)
with 72 10/100-TX ports and a 3-port transceiver module installed (transceivers ordered separately) and 4 open module slots



hp procurve switch 4108gl (J4865A)
with 8 open module slots

accessories

modules:
- HP Procurve Switch GL 10/100-TX module (J4862B)
- HP Procurve Switch GL 100/1000-T module (J4863A)
- HP Procurve Switch GL transceiver module (J4864A)
- NEW HP Procurve Switch GL mini-GBIC module (J4893A)

mini-GBICs and transceivers:
- HP Procurve Gigabit-SX-LC mini-GBIC (J4858A)
- HP Procurve Gigabit-LX-LC mini-GBIC (J4859A)
- NEW HP Procurve Gigabit-LH-LC mini-GBIC* (J4860A)
- HP Procurve Gigabit-SX transceiver (J4131B)
- HP Procurve Gigabit-LX transceiver (J4132A)
- HP Procurve 100/1000-T transceiver (J4834A)
- HP Procurve 100-FX transceiver (J4853A)
- HP Procurve Gigabit stacking kit (J4116A)

RPS:
- HP Procurve Switch redundant power supply (J4839A)

features and benefits

- **fast path technology:** wire-speed switching of intra-module traffic for up to 71.4 Mpps throughput
- **fast switch fabric:** high-performance switch fabric (up to 36.6 Gbps)
- **IP multicast (IGMP):** prevents flooding of IP multicast traffic
- **Rapid Convergence Spanning Tree Protocol (802.1w):** increases network uptime through faster recovery from failed links
- **802.3ad Link Aggregation Control Protocol (LACP) and hp trunking:** support up to 6 trunks, each with up to 4 links (ports) per trunk; trunking across modules is supported
- **Cisco Fast EtherChannel© (FEC):** supports Cisco's proprietary FEC trunking protocol
- **hot-swappable modules:** permits modules and mini-GBICs to be added or swapped without interrupting the network
- **dual flash images:** provides independent primary and secondary OS files for backup while upgrading
- **optional redundant power supply:** provides uninterrupted power
- **802.1x and RADIUS network login:** controls port-based access for authentication and accountability
- **VLAN:** supports up to 30 port-based VLANs, GVRP, and 802.1Q VLAN tagging
- **port security:** prevents unauthorized access using MAC address lockdown
- **TACACS+:** eases switch management security administration by using a password authentication server
- **Secure Shell (SSH):** encrypts all transmitted data for secure remote access over IP networks
- **traffic prioritization (802.1p):** allows real-time traffic classification into 8 priority levels mapped to 3 queues
- **RMON and switch monitoring (SMON):** provides monitoring and reporting capabilities for statistics, history, alarms, and events
- **stacking capability:** single IP address management for a virtual stack of up to 16 switches including the 1600m, 2400m, 2424m, 2512, 2524, 4000m, 8000m, and 4100gl series

* Check www.hp.com/go/hpprocurve for availability of this product or feature.

—continued on next page—

specifications

standard configuration
Switch 4108gl bundle: 8-slot chassis with integrated switching engine, power supply, 72 10/100-TX ports (3 x J4862B), 3-port transceiver module (1 x J4864A)
Switch 4108gl: 8-slot chassis with integrated switching engine, power supply
8-slot chassis: maximum of 192 10/100-TX ports or 48 Gigabit ports
Switch 4148gl: 4-slot chassis with integrated switching engine, power supply, 48 10/100-TX ports (2 x J4862B)
Switch 4104gl: 4-slot chassis with integrated switching engine, power supply
4-slot chassis: maximum of 96 10/100-TX ports or 24 Gigabit ports
performance
Latency: <10µs (FIFO)
Throughput
– Switch 4108gl and 4108gl bundle: up to 71.4 Mpps
– Switch 4104gl and 4148gl: up to 35.7 Mpps
Switch fabric speed
– Switch 4108gl and 4108gl bundle: 36.6 Gbps
– Switch 4104gl and 4148gl: 18.3 Gbps
Address table size: 8,000 entries

memory and 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: 1 MB (4108gl Fabric); 512 KB (4104gl Fabric); 512 KB (Gigabit module); 16 MB (10/100 module)
physical characteristics
Dimensions
– Switch 4108gl and 4108gl bundle: 17.4 × 15.3 × 8.75 in (44.2 × 38.9 × 22.23 cm) (5U height)
– Switch 4104gl and 4148gl: 17.4 × 15.3 × 5.25 in (44.2 × 38.9 × 13.34 cm) (3U height)
Weight
– Switch 4108gl bundle: 22.9 lb (10.4 kg)
– Switch 4108gl (chassis with 1 PS, 1 RPS cover, and 8 slot covers): 20.7 lb (9.4 kg)
– Switch 4148gl: 15.85 lb (7.2 kg)
– Switch 4104gl (chassis with 1 PS, 1 RPS cover, and 4 slot covers): 14.75 lb (6.7 kg)

environment
Operating
– Temperature: 32°F to 131°F (0°C to 55°C)
– Relative humidity: 15% to 95% @ 104°F (40°C), non-condensing
Non-operating/Storage
– Temperature: –40°F to 158°F (–40°C to 70°C)
– Relative humidity: 15% to 95% @ 149°F (65°C)
Altitude: Up to 15,091 ft (4.6 km)
mounting
Mounts in an EIA-standard 19-in telco rack or equipment cabinet (mounting hardware included); horizontal surface mounting only
electrical characteristics
The Switch 4100gl series automatically adjusts to any voltage from 100 to 127 VAC and from 200 to 240 VAC and either 50 or 60 Hz.
AC voltage: 100–127 VAC/200–240 VAC
Maximum current: 8.2 A / 3.8 A
Frequency range: 50/60 Hz

—continued on next page—

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

hp procurve switch 4100gl series (continued)

The Switch 4100gl series offers a high-performance switch fabric, high-availability features, and a wide range of network and access security features. With layer 3 VLAN routing, industry-leading lifetime warranty, and free end-user telephone and e-mail support, the Switch 4100gl series is your best choice for implementing a high-performance, low-cost network infrastructure.



NEW **hp procurve switch 4148gl (J4888A)**
with 48 10/100-TX ports installed and 2 open module slots



NEW **hp procurve switch 4104gl (J4887A)**
with 4 open module slots

accessories

modules:

- HP Procurve Switch GL 10/100-TX module (J4862B)
- HP Procurve Switch GL 100/1000-T module (J4863A)
- HP Procurve Switch GL transceiver module (J4864A)

NEW
- HP Procurve Switch GL mini-GBIC module (J4893A)

mini-GBICs and transceivers:

- HP Procurve Gigabit-SX-LC mini-GBIC (J4858A)
- HP Procurve Gigabit-LX-LC mini-GBIC (J4859A)

NEW
- HP Procurve Gigabit-LH-LC mini-GBIC* (J4860A)
- HP Procurve Gigabit-SX transceiver (J4131B)
- HP Procurve Gigabit-LX transceiver (J4132A)
- HP Procurve 100/1000-T transceiver (J4834A)
- HP Procurve 100-FX transceiver (J4853A)
- HP Procurve Gigabit stacking kit (J4116A)

RPS:

- HP Procurve Switch redundant power supply (J4839A)

features and benefits (continued)

- **hp auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100-TX and 100/1000-T ports
- **Group VLAN Registration Protocol (GVRP):** allows automatic learning and dynamic assignment of VLANs
- **Cisco Discovery Protocol (CDP):** enables real-time mapping of nodes to switch ports
- **friendly port names:** allows assignment of descriptive names to ports
- **find, fix, and inform:** finds and fixes common network problems automatically, then informs administrator
- **iSCSI support:** enables the deployment of Ethernet storage area network solutions using the emerging iSCSI standard
- **layer 3 software upgradability*:** enables VLAN-to-VLAN communications in IP networks
- **lifetime warranty:** for as long as you own the product, with next-business-day advance replacement (available in most countries)

* Check www.hp.com/go/hpprocurve for availability of this product or feature.

specifications (continued)

safety
UL 1950 3rd edition; EN 60950/IEC 950; cUL (CSA 950); NOM-019-SCFI-1994

emissions
FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A

immunity
EN 55024/CISPR-24
ESD: IEC 61000-4-2, 4 kV CD, 8 kV AD
Radiated: IEC 61000-4-3, 3V/m
EFT/Burst: IEC 61000-4-4, 1.0 kV (power line), 0.5 kV (signal line)
Surge: IEC 61000-4-5, 1 kV/2kV AC
Conducted: IEC 61000-4-6, 3V
Power frequency magnetic field: IEC 61000-4-8, 1A/m, 50 or 60 Hz
Voltage dips and interruptions: IEC 61000-4-11, >95% reduction, 0.5 period, 30% reduction, 25 periods
Harmonics: EN 61000-3-2/IEC 61000-3-2
Flicker: EN 61000-3-3/IEC 61000-3-3

standards and protocols
IEEE 802.1Q/p GVRP; IEEE 802.1D Spanning Tree; IEEE 802.1w Rapid Convergence Spanning Tree; IEEE 802.3ad Link Aggregation Control Protocol; Cisco Fast EtherChannel© (FEC); RFC 2236 IGMPv2; IEEE 802.3x Flow Control; RFC 783 TFTP; RFC 1542 BootP; RFC 951 BootP; RFC 854 Telnet; RFC 768 UDP; RFC 792 ICMP; RFC 793 TCP; RFC 826 ARP

management
HP Toptools for Hubs & Switches included; Command line interface; Web browser; Configuration menu; In-band management (serial RS-232); SNMPv1/v2c; RFC 1493 Bridge MIB; RFC 1213 MIB II; RFC 2096 IP Forwarding Table MIB; RFC 2737 Entity MIB; RFC 2863 Evolution of Interface; RFC 2665 Ethernet MIB; RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm), and 9 (events); RFC 2021 RMON probe configuration (RMON v2); RFC 2668 802.3 MAU MIB; RFC 2613 SMON; HTML and telnet management; RFC 2030 Simple Network Time Protocol; RFC 2674– 802.1p and 802.1Q Bridge MIB; RFC 2618 RADIUS Client MIB; RADIUS Accounting MIB

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

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP