



## HP V1900-8G Switch

Data sheet

### Product overview

The HP 1900-8G Switch delivers entry-level Layer 2 Gigabit switching solutions in a compact and quiet desktop enclosure that is customized and priced for small and mid-sized organizations. Without sacrificing the functionality normally required on managed networks, this managed switch offers tremendous value to small and medium businesses that need a level of control over their network not offered by unmanaged switching products—but also require a low-cost solution. The 1900-8G switch helps build a voice-ready network with QoS, RADIUS authentication, and other features. The switch has seven 10/100/1000 ports, and a dual-purpose Gigabit port (configurable as 10/100/1000 copper or SFP-based fiber) to connect to high-performance computers, servers, or network backbones. To provide improved use of network bandwidth and outstanding voice and data quality, businesses can direct traffic flow according to their needs.

### Key features

- Network access security
- Out-of-the-box setup when defaults are accepted
- Enhanced intuitive management options
- Quality of Service (QoS)
- Fanless design for quiet operation



## Features and benefits

### Management

- **RADIUS accounting support:** separates RADIUS accounting server support per SSID; provides detailed session, usage, and billing information for each client activity
- **Uni-Directional Link Detection (UDLD):** monitors cable between two switches and shuts down the ports on both ends if the cable is broken, turning the bi-directional link into uni-directional; this prevents network problems such as loops
- **Enhanced browser-based interface:** allows even the most novice users to configure the switch during initial setup and monitor it during normal operation

### Performance

- **Half-/Full-duplex autonegotiating capability on every port:** doubles the throughput of every port
- **VLANs:** segment the network by grouping users based on their data or traffic exchange requirements; help ensure improved use of available bandwidth as traffic flow is directed according to the needs of the business
- **Advanced QoS and traffic shaping:** traffic prioritization, using IEEE 802.1p Quality of Service (QoS) and Type of Service (TOS) with Differentiated Services Code Point (DSCP), helps ensure that critical time-sensitive traffic like voice is given the priority needed for quality communications
- **Rapid Spanning Tree Protocol support:** improves network compatibility, scalability, and availability
- **Flexible Gigabit uplink:** multiple units can be daisy-chained together via the built-in copper Gigabit uplink port or be connected to a network backbone via SFP-based fiber modules
- **IGMP snooping:** multicast filtering improves network performance, instead of flooding traffic to all ports

### Resiliency and high availability

- **IEEE 802.1D Spanning Tree Protocol (STP):** provides redundant links while preventing network loops

- **Link aggregation (trunking):** allows any number of ports to be grouped together automatically using Link Aggregation Control Protocol (LACP), or manually, to form an ultra-high-bandwidth connection to the network backbone; helps prevent traffic bottlenecks

### Security

- **IEEE 802.1X and RADIUS network logins:** control port-based access for authentication and accountability

### Warranty and support

- **NEW 3-year warranty:** with advance replacement and next-business-day delivery (available in most countries)
- **NEW Electronic and telephone support:** limited electronic and telephone support is available from HP; refer to [www.hp.com/networking/warranty](http://www.hp.com/networking/warranty) for details on the support provided and the period during which support is available
- **NEW Software releases:** refer to [www.hp.com/networking/warranty](http://www.hp.com/networking/warranty) for details on the software releases provided and the period during which software releases are available for your product(s)

# HP V1900-8G Switch

## Specifications



HP V1900-8G Switch (JD865A)

<b>Ports</b>	7 RJ-45 auto-negotiating 10/100/1000 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T) 1 SFP dual-personality 10/100/1000 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T) Supports a maximum of 8 auto-sensing 10/100/1000 ports
<b>Physical characteristics</b>	
Dimensions	9.4(d) x 17.4(w) x 1.7(h) in. (23.88 x 44.2 x 4.32 cm) (1U height)
Weight	6.4 lb. (2.9 kg)
<b>Memory and processor</b>	
Processor	Vitesse VSC7398 @ 25 MHz, 128 KB SDRAM, 2 MB flash
<b>Performance</b>	
100 Mb Latency	< 5 $\mu$ s
1000 Mb Latency	< 5 $\mu$ s
Throughput	11.3 million pps
Routing/Switching capacity	16 Gbps
MAC address table size	8,192 entries
<b>Environment</b>	
Operating temperature	32°F to 113°F (0°C to 45°C)
Operating relative humidity	10% to 90%, non-condensing
Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
Non-operating/Storage relative humidity	10% to 95%, non-condensing
<b>Electrical characteristics</b>	
Voltage	100-240 VAC
Frequency	50 / 60 Hz
<b>Safety</b>	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
<b>Emissions</b>	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A
<b>Management</b>	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
<b>Notes</b>	7 Gigabit ports can be operated in combination; only the eighth can be used with the SFP port. The HP V1900-8G (JD865A) Switch was formerly sold as the 3Com OfficeConnect Managed Gigabit Switch 8 (3CGSU08A) and may ship with this product labeling.
<b>Services</b>	3-year, 4-hour onsite, 13x5 coverage for hardware (UV786E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW485E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UW488E) 3-year, 24x7 SW phone support, software updates (UV789E) Installation with minimum configuration, system-based pricing (UW451E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV787E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW486E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW489E) 4-year, 24x7 SW phone support, software updates (UV790E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV788E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UW487E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW490E) 5-year, 24x7 SW phone support, software updates (UV791E) 3 Yr 6 hr Call-to-Repair Onsite (UW491E) 4 Yr 6 hr Call-to-Repair Onsite (UW492E) 5 Yr 6 hr Call-to-Repair Onsite (UW493E)
	Refer to the HP website at <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

# HP V1900-8G Switch

## Specifications (continued)

### HP V1900-8G Switch (JD865A)

#### Standards and protocols

##### Device management

RFC 2819 RMON

##### General protocols

IEEE 802.1s Multiple Spanning Trees  
IEEE 802.1w Rapid Reconfiguration of Spanning Tree  
IEEE 802.3ab 1000BASE-T  
IEEE 802.3ac (VLAN Tagging Extension)  
IEEE 802.3ad Link Aggregation Control Protocol (LACP)  
IEEE 802.3ae 10-Gigabit Ethernet  
IEEE 802.3ag Ethernet OAM  
IEEE 802.3i 10Base-T  
IEEE 802.3u 100BASE-X  
IEEE 802.3x Flow Control  
IEEE 802.3z 1000BASE-X

##### MIBs

RFC 1213 MIB II  
RFC 1493 Bridge MIB  
RFC 2021 RMONv2 MIB  
RFC 2233 Interface MIB  
RFC 2233 Interfaces MIB  
RFC 2571 SNMP Framework MIB  
RFC 2572 SNMP-MPD MIB  
RFC 2573 SNMP-Notification MIB  
RFC 2573 SNMP-Target MIB  
RFC 2613 SMON MIB  
RFC 2618 RADIUS Client MIB  
RFC 2620 RADIUS Accounting MIB  
RFC 2665 Ethernet-Like-MIB  
RFC 2667 IP Tunnel MIB  
RFC 2668 802.3 MAU MIB  
RFC 2674 802.1p and IEEE 802.1Q Bridge MIB  
RFC 2737 Entity MIB (Version 2)  
RFC 3414 SNMP-User based-SM MIB

RFC 3415 SNMP-View based-ACM MIB  
RFC 3418 MIB for SNMPv3

##### Network management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)  
IEEE 802.1D (STP)  
RFC 1215 SNMP Generic traps

##### QoS/CoS

IEEE 802.1P (CoS)

##### Security

IEEE 802.1X Port Based Network Access Control

# HP V1900-8G Switch accessories

## Transceivers

HP X120 1G SFP LC LX Transceiver (JD119B)

HP X124 1G SFP LC SX Transceiver (JD493A)

## Cables

**NEW** HP 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A)

**NEW** HP 1 m Multimode OM3 LC/LC Optical Cable (AJ834A)

**NEW** HP 2 m Multimode OM3 LC/LC Optical Cable (AJ835A)

**NEW** HP 5 m Multimode OM3 LC/LC Optical Cable (AJ836A)

**NEW** HP 15 m Multimode OM3 LC/LC Optical Cable (AJ837A)

**NEW** HP 30 m Multimode OM3 LC/LC Optical Cable (AJ838A)

**NEW** HP 50 m Multimode OM3 LC/LC Optical Cable (AJ839A)

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To learn more, visit [www.hp.com/networking](http://www.hp.com/networking)

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4AA1-7805ENW, Created June 2010; Updated September 2010, Rev. 1

