

Data sheet

## Product overview

HP 1910 switches are advanced smart managed fixed-configuration Gigabit Ethernet lite Layer 3 switches designed for small businesses looking for key enhanced features in an easy-to-administer solution. The series has eight models: 8-, 16-, 24-, and 48-port 10/100/1000 non-PoE models; and two 8-port and two 24-port 10/100/1000 PoE models. All switches have additional true Gigabit SFP ports for fiber connectivity. HP 1910 models support rack mounting or desktop operation and use variable-speed fans for quiet operation. The HP 1910 switches operate at full wire-speed IPv6, supporting QoS traffic prioritization and security features such as 802.1X network login, access control lists, and denial-of-service prevention. Customizable features include VLANs and link aggregation trunking, as well as advanced features such as Layer 3 static routing and Spanning Tree Protocols (STP, RSTP, and MSTP). The HP 1910 switches come with a lifetime warranty covering the unit, fans, and power supplies.

## Key features

- Customized operation using intuitive Web interface
- Layer 3 static routing with 32 routes
- Access control lists
- Spanning Tree: STP, RSTP, and MSTP
- Lifetime warranty



## Features and benefits

## Quality of Service (QoS)

- **Broadcast control:** allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic
- **Rate limiting:** sets per-port ingress enforced maximums and per-port, per-queue guaranteed minimums
- **Traffic prioritization:** provides time-sensitive packets with priority based on DSCP or IEEE 802.1p classification; packets are mapped to four hardware queues for more effective throughput

#### Management

- Simple Web management: intuitive Web GUI (http/https) allows for easy management of device by even nontechnical users
- Single IP management: enables management of up to 32 HP 1910 devices using a single Web interface; simplifies management of multiple devices
- Secure Web GUI: provides a secure, easy-to-use graphical interface for configuring the module via HTTPS
- **SNMPv1, v2c, and v3:** devices can be discovered and monitored from an SNMP management station
- Complete session logging: provides detailed information for problem identification and resolution
- **Dual flash images:** provide independent primary and secondary operating system files for backup while upgrading
- **Port mirroring:** enables traffic on a port to be simultaneously sent to a network analyzer for monitoring
- Management security: multiple privilege levels with password protection restrict access to critical configuration commands; ACLs provide telnet and SNMP access; local and remote syslog capabilities allow logging of all access
- Network Time Protocol (NTP): synchronizes timekeeping among distributed time servers and clients; keeps consistent timekeeping among all clock-dependent devices within the network so that the devices can provide diverse applications based on the consistent time
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP): automated device discovery protocol provides easy mapping of network management applications

- DHCP options: client allows automatic setting of IP address
- **Limited CLI:** enables users to quickly deploy and troubleshoot devices in the network
- **RMON:** provides advanced monitoring and reporting capabilities for statistics, history, alarms, and events

#### Connectivity

- Auto-MDI/MDIX: automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports
- **Non-shared SFP ports:** four true SFP mini-GBIC ports provide optional fiber connectivity such as Gigabit-SX and -LX; also supports SFP 1G RJ-45 copper connections
- IEEE 802.3X flow control: provides a flow throttling mechanism propagated through the network to prevent packet loss at a congested node
- IEEE 802.3af Power over Ethernet (PoE) ready: PWR models can provide up to 15.4 W per port to power standards-compliant IP phones, wireless LAN access points, Web cameras, and more
- Packet storm protection: protects against broadcast, multicast, or unicast storms with user-defined thresholds
- Cable diagnostics: remotely detect cable issues using a browser-based tool
- IPv6:
  - IPv6 host: enables switches to be managed and deployed at the IPv6 network's edge
  - IPv6 static routes:
  - MLD snooping: forwards IPv6 multicast traffic to the appropriate interface, preventing traffic flooding
  - IPv6 ACL/QoS: supports ACL and QoS for IPv6 network traffic

#### Performance

- Half-/Full-duplex auto-negotiating capability on every port: doubles the throughput of every port
- Selectable queue configurations: allow you to increase performance by selecting the number of queues and associated memory buffering that best meet the requirements of your network applications
- **IGMP snooping:** multicast filtering improves network performance, instead of flooding traffic to all ports

• Fiber uplink: provides greater distance connectivity using Gigabit fiber uplinks

## Resiliency and high availability

- Redundant power supply (365 W power model only): RPS power supply provides additional PoE of up to 740 W for high power applications like Gigabit Ethernet IntelliJack switches; the HP RPS 1600 Power Supply (JG136A) is sold separately
- Link aggregation: groups together multiple ports (up to a maximum of 2 ports) automatically using Link Aggregation Control Protocol (LACP), or manually, to form an ultra-high-bandwidth connection to the network backbone; helps prevent traffic bottlenecks

## Layer 2 switching

- VLAN support and tagging: supports IEEE 802.1Q (4,094 VLAN IDs) and 256 VLANs simultaneously
- **Spanning Tree Protocol:** fully supports standard IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol for faster convergence, and IEEE 802.1s Multiple Spanning Tree Protocol
- **BPDU filtering:** drops BPDU packets when STP is enabled globally but disabled on a specific port
- Jumbo frame support: supports up to 10 kilobyte frame size to improve the performance of large data transfers

## Layer 3 services

- Address Resolution Protocol (ARP): determines the MAC address of another IP host in the same subnet; supports static ARPs; gratuitous ARP allows detection of duplicate IP addresses; proxy ARP allows normal ARP operation between subnets or when subnets are separated by a Layer 2 network
- **DHCP relay:** simplifies management of DHCP addresses in networks with multiple subnets

## Layer 3 routing

• NEW Static IPv4/IPv6 routing: provides basic routing (supporting up to 32 static routes and 8 virtual VLAN interfaces); allows manual configuration of routing

## Security

- Advanced access control lists (ACLs): MACand IP-based ACLs enable network traffic filtering and enhance network control; time-based ACLs allow for greater flexibility with managing network access
- Secure Sockets Layer (SSL): encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- IEEE 802.1X and RADIUS network logins: control port-based access for authentication and accountability
- Automatic VLAN assignment: automatically assigns users to the appropriate VLAN based on their identity and location and the time of day
- **STP BPDU port protection:** blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
- **STP Root Guard:** protects the root bridge from malicious attacks or configuration mistakes
- Automatic denial-of-service protection: monitors for malicious attacks and protects the network by blocking the attacks
- **Management password:** provides security so that only authorized access to the Web browser interface is allowed

#### Convergence

- LLDP-MED (Media Endpoint Discovery): is a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones
- **PoE allocations:** support multiple methods (automatic, IEEE 802.3af class, LLDP-MED, or user specified) to allocate PoE power for more efficient energy savings
- Auto voice VLAN: recognizes IP phones and automatically assigns voice traffic to dedicated VLAN for IP phones

## Additional information

- Green initiative support: provides support for RoHS and WEEE regulations
- **Green IT and power:** use the latest advances in silicon development, shut off unused ports, and use variable-speed fans to improve energy efficiency

## Warranty and support

- Lifetime warranty: for as long as you own the product with advance replacement and next-business-day delivery (available in most countries)†
- Electronic and telephone support: limited electronic and telephone support is available from HP; to reach our support centers, refer to www.hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to www.hp.com/networking/warrantysummary

+HP warranty includes repair or replacement of hardware for as long as you own the product, with next business day advance replacement (available in most countries). The disk drive included with HP AllianceOne Advanced Services and Services zl Modules, HP Threat Management Services zl Module, HP AllianceOne Extended zl Module with Riverbed Steelhead, HP MSM765zl Mobility Controller and HP Survivable Branch Communication zl Module powered by Microsoft Lync has a five-year hardware warranty. For details, refer to the Software license and hardware warranty statements at www.hp.com/networking/warranty.

# Specifications

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	HP 1910-48G Switch (JE009A)	HP 1910-24G-PoE (365W) Switch (JE007A)	HP 1910-24G-PoE (170W) Switch (JE008A)
Ports	48 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)	24 RJ-45 auto-negotiating 10/100/1000 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE)	24 RJ-45 auto-negotiating 10/100/1000 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE)
	4 SFP 1000 Mbps ports	4 SFP 1000 Mbps ports	4 SFP 1000 Mbps ports
	Supports a maximum of 48 autosensing 10/100/1000 ports plus 4 1000BASE-X SFP ports, or a combination	Supports a maximum of 24 autosensing 10/100/1000 ports plus 4 1000BASE-X SFP ports, or a combination	Supports a maximum of 24 autosensing 10/100/1000 ports plus 4 1000BASE-X SFP ports, or a combination
Physical characteristics			
Weight	17.4(w) x 10.24(d) x 1.7(h) in (44.2 x 26.01 x 4.32 cm) (1U height) 6.8 lb (3.08 kg)	17.4(w) x 16.54(d) x 1.7(h) in (44.2 x 42.01 x 4.32 cm) (1U height) 6.8 lb (3.08 kg)	17.4(w) x 16.54(d) x 1.7(h) in (44.2 x 42.01 x 4.32 cm) (1U height) 6.8 lb (3.08 kg)
Memory and processor			
	ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB	ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB	ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB
Mounting	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)
Performance			
100 Mb Latency	< 5 μs	< 5 µs	< 5 μs
1000 Mb Latency	< 5 µs	< 5 µs	< 5 µs
Throughput	up to 77.4 million pps	up to 41.7 million pps	up to 41.7 million pps
Routing/Switching capacity	104 Gbps	56 Gbps	56 Gbps
Routing table size	32 entries	32 entries	32 entries
MAC address table size	8192 entries	8192 entries	8192 entries
Environment			
Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Operating relative humidity	10% to 90%, noncondensing	10% to 90%, noncondensing	10% to 90%, noncondensing
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Nonoperating/Storage relative humidity	10% to 95%, noncondensing	10% to 95%, noncondensing	10% to 95%, noncondensing
Electrical characteristics			
	Achieved Miercom Certified Green Award		
Voltage	100-240 VAC	100-240 VAC	100-240 VAC
Maximum power rating	59.8 W	523 W	255 W
PoE power	50 / / 0 / /	365 W	170 W
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies and may be supplemented with the use of an external power supply (EPS).	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies.
Safety	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
Emissions	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	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	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
Management	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
Notes	The HP 1910-48G Switch (JE009A) was formerly sold as the 3Com Baseline Plus 2952 (3CRBSG5293) and may ship with this product labeling. SFP ports and copper ports work simultaneously, independent of each other to give a total of 52 Gigabit-capable ports.	The HP 1910-24G-PoE (365 W) Switch (JE007A) was formerly sold as the 3Com Baseline Plus 2928 HPWR (3CR8SG28HPWR93) and may ship with this product labeling. SFP ports and copper ports can work simultaneously, independent of each other to give a total of 28 Gigabit-capable ports.	The HP 1910-24G-PoE (170 W) Switch (JE008A) was formerly sold as the 3Com Baseline Plus 2928 PWR (3CRBSG28PWR93) and may ship with this product labeling. SFP ports and copper ports work simultaneously, independent of each other to give a total of 28 Gigabit-capable ports.
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV786E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV786E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV786E)

HP 1910-48G Switch (JE009A)	HP 1910-24G-PoE (365W) Switch (JE007A)	HP 1910-24G-PoE (170W) Switch (JE008A)
3-year, 4-hour onsite, 13x5 coverage for hardware (UV804E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV804E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV804E)
3-year, 4-hour onsite, 24x7 coverage for hardware (UW033E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UW033E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UW033E)
3-year, 4-hour onsite, 24x7 coverage for hardware (UW485E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UW485E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UW485E)
3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW036E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW036E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW036E)
3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW488E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW488E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW488E)
3-year, 24x7 SW phone support, software updates (UV807E)	3-year, 24x7 SW phone support, software updates (UV807E)	3-year, 24x7 SW phone support, software updates (UV807E)
3-year, 24x7 SW phone support, software updates (UV789E)	3-year, 24x7 SW phone support, software updates (UV789E)	3-year, 24x7 SW phone support, software updates (UV789E)
) 1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR682E)	1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR682E)	1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR682E)
1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR683E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR683E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR683E)
1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR684E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR684E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR684E)
Installation with minimum configuration, system-based pricing (UY901E)	Installation with minimum configuration, system-based pricing (UY901E)	Installation with minimum configuration, system-based pricing (UY901E)
Installation with HP-provided configuration, system-based pricing (UY902E)	Installation with minimum configuration, system-based pricing (UW451E)	Installation with HP-provided configuration, system-based pricing (UY902E)
4-year, 4-hour onsite, 13x5 coverage for hardware (UV787E)	Installation with HP-provided configuration, system-based pricing (UY902E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UV787E)
4-year, 4-hour onsite, 13x5 coverage for hardware (UV805E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UV787E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UV805E)
4-year, 4-hour onsite, 24x7 coverage for hardware (UW034E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UV805E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UW034E)
4-year, 4-hour onsite, 24x7 coverage for hardware (UW486E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UW034E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UW486E)
4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW037E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UW486E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW037E)
4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW489E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW037E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW489E)
4-year, 24x7 SW phone support, software updates (UV790E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW489E)	4-year, 24x7 SW phone support, software updates (UV790E)
4-year, 24x7 SW phone support, software updates (UV808E)	4-year, 24x7 SW phone support, software updates (UV790E)	4-year, 24x7 SW phone support, software updates (UV808E)
5-year, 4-hour onsite, 13x5 coverage for hardware (UV788E)	4-year, 24x7 SW phone support, software updates (UV808E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UV788E)
5-year, 4-hour onsite, 13x5 coverage for hardware (UV806E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UV788E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UV806E)
5-year, 4-hour onsite, 24x7 coverage for hardware (UW035E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UV806E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UW035E)
5-year, 4-hour onsite, 24x7 coverage for hardware (UW487E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UW035E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UW487E)
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW038E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UW487E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW038E)
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW490E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW038E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW490E)
5-year, 24x7 SW phone support, software updates (UV791E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW490E)	5-year, 24x7 SW phone support, software updates (UV791E)
5-year, 24x7 SW phone support, software updates (UV809E)	5-year, 24x7 SW phone support, software updates (UV791E)	5-year, 24x7 SW phone support, software updates (UV809E)
3 Yr 6 hr Call-to-Repair Onsite (UW491E)	5-year, 24x7 SW phone support, software updates (UV809E)	3 Yr 6 hr Call-to-Repair Onsite (UW491E)
3 Yr 6 hr Call-to-Repair Onsite (UW039E)	3 Yr 6 hr Call-to-Repair Onsite (UW491E)	3 Yr 6 hr Call-to-Repair Onsite (UW039E)
4 Yr 6 hr Call-to-Repair Onsite (UW492E)	3 Yr 6 hr Call-to-Repair Onsite (UW039E)	4 Yr 6 hr Call-to-Repair Onsite (UW492E)
4 Yr 6 hr Call-to-Repair Onsite (UW040E)	4 Yr 6 hr Call-to-Repair Onsite (UW492E)	4 Yr 6 hr Call-to-Repair Onsite (UW040E)
5 Yr 6 hr Call-to-Repair Onsite (UW493E)	4 Yr 6 hr Call-to-Repair Onsite (UW040E)	5 Yr 6 hr Call-to-Repair Onsite (UW493E)
5 Yr 6 hr Call-to-Repair Onsite (UW041E)	5 Yr 6 hr Call-to-Repair Onsite (UW493E)	5 Yr 6 hr Call-to-Repair Onsite (UW041E)

	HP 1910-48G Switch (JE009A)	HP 1910-24G-PoE (365W) Switch (JE007A)	HP 1910-24G-PoE (170W) Switch (JE008A)
	1-year, 6 hour Call-To-Repair Onsite for hardware (HR686E)	5 Yr 6 hr Call-to-Repair Onsite (UW041E)	1-year, 6 hour Call-To-Repair Onsite for hardware (HR686E)
	1-year, 24x7 software phone support, software updates (HR685E)	1-year, 6 hour Call-To-Repair Onsite for hardware (HR686E)	1-year, 24x7 software phone support, software updates (HR685E)
	Refer to the HP website at <u>www.hp.com/networking/services</u> 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.	1-year, 24x7 software phone support, software updates (HR685E)	Refer to the HP website at <u>www.hp.com/networking/services</u> for details on th service-level descriptions and product numbers. Fo details about services and response times in your area, please contact your local HP sales office.
		Refer to the HP website at <u>www.hp.com/networking/services</u> 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.	
Standards and protocols (applies to all products in series)	Device management RFC 2819 RMON General protocols	MIBs RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2021 RMONv2 MIB RFC 2233 Interface MIB	Network management IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.1D (STP) RFC 1215 SNMP Generic traps
	IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s (MSTP) IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3 Type 10BASE-T	RFC 2233 Interfaces MIB RFC 2571 SNMP Framework MIB RFC 2572 SNMP-NPD MIB RFC 2573 SNMP-Notification MIB RFC 2573 SNMP-Target MIB RFC 2613 SMON MIB RFC 2618 RADIUS Client MIB	QoS/CoS IEEE 802.1P (CoS) Security IEEE 802.1X Port Based Network Access Control
	IEEE 802.3 Jb 1000BASET IEEE 802.3 dL Link Aggregation Control Protocol (IACP) IEEE 802.3 i 10BASE-T IEEE 802.3 x Flow Control IEEE 802.3 x 1000BASE-X	RFC 2620 RADIUS Citem Mib RFC 2665 Ethernet-Like-MIB RFC 2665 Ethernet-Like-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	ILLE 302. TA FOIL DUSED INCIMULA ALLESS COILIG

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	HP 1910-24G Switch (JE006A)	HP 1910-16G Switch (JE005A)	HP 1910-8G Switch (JG348A)
Ports	24 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)	16 RI-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)	8 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)
	4 SFP 1000 Mbps ports	4 SFP 1000 Mbps ports	1 SFP 1000 Mbps port
	Supports a maximum of 24 autosensing 10/100/1000 ports plus 4 1000BASE-X SFP ports, or a combination	Supports a maximum of 16 autosensing 10/100/1000 ports plus 4 1000BASE-X SFP ports, or a combination	Supports a maximum of 8 autosensing 10/100/1000 ports plus 1 1000BASE-X SFP ports, or a combination
Physical characteristics	17.4(w) x 6.3(d) x 1.7(h) in (44.2 x 16 x 4.32 cm) (1U height)	17.4(w) x 6.3(d) x 1.7(h) in (44.2 x 16 x 4.32 cm) (1U height)	8.27(w) x 8.27(d) x 1.72(h) in (21 x 21 x 4.36 cm) (1U height)
Weight	6.8 lb (3.08 kg)	6.8 lb (3.08 kg)	4.41 lb (2 kg), Fully loaded
Memory and processor	ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB	ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB	ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB
Mounting	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)
Performance			
100 Mb Latency	< 5 µs	< 5 µs	< 5 µs
1000 Mb Latency	< 5 μs	< 5 μs	< 5 μs
Throughput	up to 41.7 million pps	up to 29.8 million pps	up to 13.4 million pps
Routing/Switching capacity	56 Gbps	40 Gbps	18 Gbps
Routing table size	32 entries	32 entries	32 entries
MAC address table size	8192 entries	8192 entries	8192 entries
Environment			
Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Operating relative humidity	10% to 90%, noncondensing	10% to 90%, noncondensing	10% to 90%, noncondensing
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Nonoperating/Storage relative humidity	10% to 95%, noncondensing	10% to 95%, noncondensing	10% to 95%, noncondensing
	10% to 73%, noncondensing	row to 73%, noncondensing	10% 10 73%, Honcondensing
Electrical characteristics	100.040.040	100.040.144.0	100.040.144.0
Voltage	100-240 VAC	100-240 VAC	100-240 VAC
Maximum power rating	31.5 W	25.1 W	14.4 W
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
Emissions	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	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	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
Management	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
Notes	The HP 1910-24G Switch (JE006A) was formerly sold as the 3Com Baseline Plus 2928 (3CRBSG2893) and may ship with this product labeling. SFP ports and copper ports can work simultaneously, independent of each other to give a total of 28 Gigabit-capable ports.	The HP 1910-16G Switch (JE005A) was formerly sold as the 3Com Baseline Plus PWR 2920 (3CRBSG2093) and may ship with this product labeling. SFP ports and copper ports can work simultaneously, independent of each other to give a total of 20 Gigabit-capable ports.	SFP port and copper ports work simultaneously, independent of each other to give a total of 9 Gigabit-capable ports.
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV786E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV786E)	Refer to the HP website at <u>www.hp.com/networking/services</u> 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.
	3-year, 4-hour onsite, 13x5 coverage for hardware (UV804E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV804E)	
	3-year, 4-hour onsite, 24x7 coverage for hardware (UW033E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UW033E)	

 HP 1910-24G Switch (JE006A)	HP 1910-16G Switch (JE005A)	HP 1910-8G Switch (JG348A)
3-year, 4-hour onsite, 24x7 coverage for hardware (UW485E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UW485E)	
3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW036E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW036E)	
3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW488E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW488E)	
3-year, 24x7 SW phone support, software updates (UV807E)	3-year, 24x7 SW phone support, software updates (UV807E)	
3-year, 24x7 SW phone support, software updates (UV789E)	3-year, 24x7 SW phone support, software updates (UV789E)	
1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR682E)	1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR682E)	
1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR683E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR683E)	
1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR684E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR684E)	
Installation with minimum configuration, system-based pricing (UY901E)	Installation with minimum configuration, system-based pricing (UY901E)	
Installation with HP-provided configuration, system-based pricing (UY902E)	Installation with minimum configuration, system-based pricing (UW451E)	
4-year, 4-hour onsite, 13x5 coverage for hardware (UV787E)	Installation with HP-provided configuration, system-based pricing (UY902E)	
4-year, 4-hour onsite, 13x5 coverage for hardware (UV805E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UV787E)	
4-year, 4-hour onsite, 24x7 coverage for hardware (UW034E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UV805E)	
4-year, 4-hour onsite, 24x7 coverage for hardware (UW486E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UW034E)	
4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW037E)	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, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW037E)	
4-year, 24x7 SW phone support, software updates (UV790E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW489E)	
4-year, 24x7 SW phone support, software updates (UV808E)	4-year, 24x7 SW phone support, software updates (UV790E)	
5-year, 4-hour onsite, 13x5 coverage for hardware (UV788E)	4-year, 24x7 SW phone support, software updates (UV808E)	
5-year, 4-hour onsite, 13x5 coverage for hardware (UV806E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UV788E)	
5-year, 4-hour onsite, 24x7 coverage for hardware (UW035E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UV806E)	
5-year, 4-hour onsite, 24x7 coverage for hardware (UW487E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UW035E)	
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW038E)	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, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW038E)	
5-year, 24x7 SW phone support, software updates (UV791E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW490E)	
5-year, 24x7 SW phone support, software updates (UV809E)	5-year, 24x7 SW phone support, software updates (UV791E)	
3 Yr 6 hr Call-to-Repair Onsite (UW491E)	5-year, 24x7 SW phone support, software updates (UV809E)	
3 Yr 6 hr Call-to-Repair Onsite (UW039E)	3 Yr 6 hr Call-to-Repair Onsite (UW491E)	
4 Yr 6 hr Call-to-Repair Onsite (UW492E)	3 Yr 6 hr Call-to-Repair Onsite (UW039E)	
4 Yr 6 hr Call-to-Repair Onsite (UW040E)	4 Yr 6 hr Call-to-Repair Onsite (UW492E)	
5 Yr 6 hr Call-to-Repair Onsite (UW493E)	4 Yr 6 hr Call-to-Repair Onsite (UW040E)	
5 Yr 6 hr Call-to-Repair Onsite (UW041E)	5 Yr 6 hr Call-to-Repair Onsite (UW493E)	
1-year, 6 hour Call-To-Repair Onsite for hardware (HR686E)	5 Yr 6 hr Call-to-Repair Onsite (UW041E)	
1-year, 24x7 software phone support, software updates (HR685E)	1-year, 6 hour Call-To-Repair Onsite for hardware (HR686E)	

	HP 1910-24G Switch (JE006A)	HP 1910-16G Switch (JE005A)	HP 1910-8G Switch (JG348A)
	Refer to the HP website at <u>www.hp.com/networking/services</u> 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.	1-year, 24x7 software phone support, software updates (HR685E)	
		Refer to the HP website at <u>www.hp.com/networking/services</u> 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.	
Standards and protocols applies to all products in series)	Device management RFC 2819 RMON General protocols IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1g VLANs IEEE 802.1s (MSTP) IEEE 802.3 type 10BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.31 IOBASE-T IEEE 802.32 Flow Control IEEE 802.3z 1000BASE-T IEEE 802.3z 1000BASE-T	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-Notification MIB RFC 2573 SNMP-Notification MIB RFC 2573 SNMP-Notification MIB RFC 2613 SMON MIB RFC 2618 RADIUS Client MIB RFC 2618 RADIUS Client MIB RFC 2620 RADIUS Accounting MIB RFC 2668 B02.3 MAU MIB RFC 2674 802.1 p and IEEE 802.1 Q Bridge MIB RFC 2737 Entity MIB (Version 2) RFC 3414 SNMP-User based-SM MIB	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 1910-8G-PoE+ (65W) Switch (JG349A)	HP 1910-8G-PoE+ (180W) Switch (JG350A)
Ports	8 RJ-45 auto-negotiating 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE, IEEE 802.3at)	8 RJ-45 auto-negotiating 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE, IEEE 802.3at)
	1 SFP 1000 Mbps port	1 SFP 1000 Mbps port
	Supports a maximum of 8 autosensing 10/100/1000 ports plus 1 1000BASE-X SFP ports, or a combination	Supports a maximum of 8 autosensing 10/100/1000 ports plus 1 1000BASE-X SFP ports, or a combination
Physical characteristics		
Weight	10.24(w) x 11.81(d) x 1.72(h) in (26 x 30 x 4.36 cm) (1U height) 6.61 lb (3 kg), Fully loaded	10.24(w) x 11.81(d) x 1.72(h) in (26 x 30 x 4.36 cm) (1U height) 6.61 lb (3 kg), Fully loaded
Memory and processor	ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB	ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB
Mounting	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)
Performance		· · · ·
100 Mb Latency	< 5 µs	< 5 μs
1000 Mb Latency	< 5 μs	< 5 μs
Throughput	up to 13.4 million pps	up to 13.4 million pps
Routing/Switching capacity	18 Gbps	18 Gbps
Routing table size	32 entries	32 entries
MAC address table size	8192 entries	8192 entries
Environment		
Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Operating relative humidity	10% to 90%, noncondensing	10% to 90%, noncondensing
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Nonoperating/Storage relative humidity	10% to 95%, noncondensing	10% to 95%, noncondensing
Electrical characteristics		
Voltage	100-240 VAC	100-240 VAC
Maximum power rating	93 W	228 W
PoE power	65 W	180 W
Frequency	50/60 Hz	50/60 Hz
Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies.	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies.
Safety	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
Emissions	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	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
Management	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
Notes	SFP port and copper ports work simultaneously, independent of each other to give a total of 9 Gigabit-capable ports.	SFP port and copper ports work simultaneously, independent of each other to give a total of 9 Gigabit-capable ports.
Services	Refer to the HP website at <u>www.hp.com/networking/services</u> 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.	Refer to the HP website at <u>www.hp.com/networking/services</u> 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.

## Specifications (continued)

#### HP 1910-8G-PoE+ (65W) Switch (JG349A)

MIBs

RFC 1213 MIB II

RFC 1493 Bridge MIB RFC 2021 RMONv2 MIB

RFC 2233 Interface 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 2613 SMON MB RFC 2613 RADIUS Client MIB RFC 2620 RADIUS Accounting MIB RFC 2665 Ethernet-Like-MIB RFC 2667 IP Tunnel MIB

RFC 2074 602.10 bind IEEE 602.10 bin 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

RFC 2674 802.1p and IEEE 802.1Q Bridge MIB

RFC 2573 SNMP-Target MIB

RFC 2668 802.3 MAU MIB

Standards and protocols (applies to all products in series) Device management RFC 2819 RMON

**General protocols** IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s (MSTP) IEEE 802.1 w Rapid Reconfiguration of Spanning Tree IEEE 802.3 Type 10BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3i 10BASE-T IEEE 802.3x Flow Control IEEE 802.3z 1000BASE-X

HP 1910-8G-PoE+ (180W) Switch (JG350A)

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 1910 Switch Series accessories

#### **Transceivers**

HP X121 1G SFP LC SX Transceiver (J4858C) HP X121 1G SFP LC LX Transceiver (J4859C) HP X121 1G SFP RJ45 T Transceiver (J8177C) HP X120 1G SFP LC SX Transceiver (JD118B) HP X120 1G SFP LC LX Transceiver (JD19B) HP X124 1G SFP LC SX Transceiver (JD493A) HP X124 1G SFP LC LX Transceiver (JD494A) HP X120 1G SFP RJ45 T Transceiver (JD089B)

#### Cables

HP 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A) HP 1 m Multimode OM3 LC/LC Optical Cable (AJ834A) HP 2 m Multimode OM3 LC/LC Optical Cable (AJ835A) HP 5 m Multimode OM3 LC/LC Optical Cable (AJ836A) HP 15 m Multimode OM3 LC/LC Optical Cable (AJ837A) HP 30 m Multimode OM3 LC/LC Optical Cable (AJ838A)

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

HP 0.5 m PremierFlex OM3+ LC/LC Optical Cable (BK837A)

HP 1 m PremierFlex OM3+ LC/LC Optical Cable (BK838A) HP 2 m PremierFlex OM3+ LC/LC Optical Cable (BK839A) HP 5 m PremierFlex OM3+ LC/LC Optical Cable (BK840A) HP 15 m PremierFlex OM3+ LC/LC Optical Cable (BK841A) HP 30 m PremierFlex OM3+ LC/LC Optical Cable (BK842A)

HP 50 m PremierFlex OM3+ LC/LC Optical Cable (BK843A)



Products within this series have achieved sufficient scores in each of the rated criteria to achieve the Miercom Certified Green distinction Award. See the Specifications section of this series for more information.

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