Data sheet

HP 1905 Switch Series

Key features

- Customized operation using intuitive Web interface
- Fast Ethernet Layer 2 operation
- Access control lists for enhanced security
- Spanning Tree: STP and RSTP
- 3-year warranty

Product overview

HP 1905 Switch Series devices are smart-managed fixed-configuration Fast Ethernet Layer 2 switches designed for small businesses looking for key features in an easy-to-administer, low-cost solution. Series models include: 24- and 48-port non-PoE switches, 8- and 24-port PoE Fast Ethernet switches. These smart-managed switches come preconfigured for fast and easy installation, yet allow network operation to be enhanced using an intuitive Web-based management interface. Advanced security and quality-of-service features create a voice-ready network. HP 1905 series switches are solidly built for business operation, and are designed for high reliability, long life, low power consumption, and low total cost of ownership. The HP 1905 switches come with a 3-year warranty, covering unit, fans, and power adapters or power supplies.

Features and benefits

Quality of Service (QoS)

- **Traffic prioritization (IEEE 802.1p)**
  allows real-time traffic classification mapped to four hardware queues per port

Management

- **Simple Web management**
  easy device management even by nontechnical users enabled by intuitive Web GUI

- **Secure web GUI**
  provides a secure, easy-to-use graphical interface for configuring the module via HTTPS

- **SNMPv1, v2c**
  devices can be discovered and monitored from an SNMP management station

- **Port mirroring**
  allows traffic to be mirrored on any port or a network analyzer to assist with diagnostics or detecting network attacks

- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP)**
  automated device discovery protocol for easy mapping by network management applications

Connectivity

- **Auto-MDIX**
  automatically adjusts for straight-through or crossover cables on all ports

- **Front-panel LEDs**
  provide an at-a-glance view of status, activity, speed, and full-duplex operation

- **Flow control**
  helps ensure reliable communications during full-duplex operation

- **Small Form-Factor Pluggable (SFP) slots**
  allow for fiber connectivity

- **Cable diagnostics**
  remotely detect cable issues using a browser-based tool

Performance

- **Link aggregation (trunking)**
  groups together up to eight links per trunk to increase bandwidth and create redundant connections

- **IGMP snooping**
  multicast filtering improves network performance, instead of flooding traffic to all ports

Layer 2 switching

- **VLAN support and tagging**
  supports up to 64 port-based VLANs and dynamic configuration of IEEE 802.1Q VLAN tagging, providing security between workgroups

- **Spanning Tree (STP/RSTP)**
  prevents network loop

Security

- **Access control lists (ACLs)**
  allow network managers to define classification actions and rules for specific ingress ports

- **Secure Sockets Layer (SSL)**
  encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch

- **IEEE 802.1X**
  utilizes an industry-standard user authentication with an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server

Convergence

- **Auto Voice VLAN**
  recognizes IP phones and automatically assigns voice traffic to dedicated VLAN for IP phones

- **IEEE 802.3af Power over Ethernet Models**
  PoE provides up to 15.4 W per port to IEEE 802.3af-compliant PoE-powered devices such as IP phones, wireless access points, and security cameras (see product specifications for total PoE power available)

Additional information

- **Green initiative support**
  provides support for RoHS and WEEE regulations

Warranty and support

- **3-year warranty**
  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**

- **Software releases**
  to find software for your product, refer to **www.hp.com/networking/support**; for details on the software releases available with your product purchase, refer to **www.hp.com/networking/warrantysummary**

HP 1905 Switch Series

Specifications

	HP 1905-24 Switch (JD990A)	HP 1905-48 Switch (JD994A)
Ports	24 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Media Type: Auto-MDIX; Duplex: half or full	48 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Media Type: Auto-MDIX; Duplex: half or full
	2 RJ-45 dual-personality 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T)	2 RJ-45 dual-personality 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T)
	1 RJ-45 serial console port	1 RJ-45 serial console port
Physical characteristics		
	17.4(w) x 9.4(d) x 1.7(h) in (44.2 x 23.88 x 4.32 cm) (1U height)	17.4(w) x 9.4(d) x 1.7(h) in (44.2 x 23.88 x 4.32 cm) (1U height)
Weight	6.8 lb (3.08 kg)	6.4 lb (2.9 kg)
Memory and processor		
Processor	ARM 88E6218 @ 150 MHz, 8 MB SDRAM, 4 MB flash; packet buffer size: 384 KB	ARM 88E6218 @ 150 MHz, 8 MB SDRAM, 4 MB flash; packet buffer size: 384 MB
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 6.6 mpps	up to 10.1 mpps
Routing/Switching capacity	8.8 Gbps	13.6 Gbps
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
Acoustic	Fanless	Fanless
Electrical characteristics		
Frequency	50/60 Hz	50/60 Hz
Voltage	100-240 VAC	100-240 VAC
Maximum power rating	17 W	26 W
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.
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	limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
Notes	The HP 1905-24 Switch (JD990A) was formerly sold as the 3Com Baseline Plus 2226 (3CBLSF26H) and may ship with this product labeling.	The HP 1905-48 Switch (JD994A) was formerly sold as the 3Com Baseline Plus 2250 (3CBLSF50H) and may ship with this product labeling.
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV792E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV792E)
	3-year, 4-hour onsite, 24x7 coverage for hardware (UW015E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UW015E)
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW021E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW021E)
	3-year, 24x7 SW phone support, software updates (UV795E)	3-year, 24x7 SW phone support, software updates (UV795E)
	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)
	4-year, 4-hour onsite, 13x5 coverage for hardware (UV793E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UV793E)
	4-year, 4-hour onsite, 24x7 coverage for hardware (UW016E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UW016E)
	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW022E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW022E)
	4-year, 24x7 SW phone support, software updates (UV796E)	4-year, 24x7 SW phone support, software updates (UV796E)
	5-year, 4-hour onsite, 13x5 coverage for hardware (UV794E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UV794E)
	5-year, 4-hour onsite, 24x7 coverage for hardware (UW017E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UW017E)
	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW023E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW023E)
	5-year, 24x7 SW phone support, software updates (UV797E)	5-year, 24x7 SW phone support, software updates (UV797E)
	3 Yr 6 hr Call-to-Repair Onsite (UW018E)	3 Yr 6 hr Call-to-Repair Onsite (UW018E)

HP 1905 Switch Series

Specifications (continued)

	HP 1905-24 Switch (JD990A)	HP 1905-48 Switch (JD994A)
	4 Yr 6 hr Call-to-Repair Onsite (UW019E)	4 Yr 6 hr Call-to-Repair Onsite (UW019E)
	5 Yr 6 hr Call-to-Repair Onsite (UW020E)	5 Yr 6 hr Call-to-Repair Onsite (UW020E)
	1-year, 6 hour Call-To-Repair Onsite for hardware (HR686E)	1-year, 6 hour Call-To-Repair Onsite for hardware (HR686E)
	1-year, 24x7 software phone support, software updates (HR685E)	1-year, 24x7 software phone support, software updates (HR685E)
	Refer to the HP website at **www.hp.com/networking/services** 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 **www.hp.com/networking/services** 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 802.1w 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 802.3i 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 1905 Switch Series

Specifications (continued)

	HP 1905-24-PoE Switch (JD992A)	HP 1905-8-PoE Switch (JD877A)
Ports	24 RJ-45 autosensing 10/100 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3af PoE); Media Type: Auto-MDIX; Duplex: half or full	8 RJ-45 autosensing 10/100 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3af PoE); Media Type: Auto-MDIX; Duplex: half or full
	2 RJ-45 dual-personality 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T)	1 RJ-45 dual-personality 10/100/1000 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T)
	1 RJ-45 serial console port	1 RJ-45 serial console port
Physical characteristics		
	17.4(w) x 9.4(d) x 1.7(h) in (44.2 x 23.88 x 4.32 cm) (1U height)	13.0(w) x 8.0(d) x 1.7(h) in (33.02 x 20.32 x 4.32 cm) (1U height)
Weight	7.1 lb (3.22 kg)	4.5 lb (2.04 kg)
Memory and processor		
Processor	ARM 88E6218 @ 150 MHz, 8 MB SDRAM, 4 MB flash; packet buffer size: 384 MB	BRCM 53202 @ 133 MHz, 32 MB SDRAM, 8 MB flash; packet buffer size: 1 MB
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 6.6 mpps	up to 2.7 mpps
Routing/Switching capacity	8.8 Gbps	3.6 Gbps
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
Acoustic		Fanless
Electrical characteristics		
Frequency	50/60 Hz	50/60 Hz
Voltage	100-240 VAC	100-240 VAC
Maximum power rating	205 W	88 W
PoE power	154 W	62 W
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 and may be supplemented with the use of a 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 and may be supplemented with the use of a External Power Supply (EPS).
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	limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
Notes	The HP 1905-24-PoE Switch (JD992A) was formerly sold as the 3Com Baseline Plus 2426 PWR (3CBLSF26PWRH) and may ship with this product labeling.	The HP 1905-8-PoE Switch (JD877A) was formerly sold as the 3Com OfficeConnect Managed Fast Ethernet PoE Switch (3CRDSF9PWR) and may ship with this product labeling.
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV792E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV786E)
	3-year, 4-hour onsite, 24x7 coverage for hardware (UW015E)	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 (UW021E)	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 (UV795E)	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)
	4-year, 4-hour onsite, 13x5 coverage for hardware (UV793E)	Installation with minimum configuration, system-based pricing (UW451E)
	4-year, 4-hour onsite, 24x7 coverage for hardware (UW016E)	Installation with minimum configuration, system-based pricing (UY901E)
	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW022E)	Installation with HP-provided configuration, system-based pricing (UY902E)
	4-year, 24x7 SW phone support, software updates (UV796E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UV787E)
	5-year, 4-hour onsite, 13x5 coverage for hardware (UV794E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UW486E)

HP 1905 Switch Series

Specifications (continued)

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5-year, 4-hour onsite, 24x7 coverage for hardware (UW017E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW489E)
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW023E)	4-year, 24x7 SW phone support, software updates (UV790E)
5-year, 24x7 SW phone support, software updates (UV797E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UV788E)
3 Yr 6 hr Call-to-Repair Onsite (UW018E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UW487E)
4 Yr 6 hr Call-to-Repair Onsite (UW019E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW490E)
5 Yr 6 hr Call-to-Repair Onsite (UW020E)	5-year, 24x7 SW phone support, software updates (UV791E)
1-year, 6 hour Call-To-Repair Onsite for hardware (HR686E)	3 Yr 6 hr Call-to-Repair Onsite (UW491E)
1-year, 24x7 software phone support, software updates (HR685E)	4 Yr 6 hr Call-to-Repair Onsite (UW492E)
Refer to the HP website at **www.hp.com/networking/services** 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.	5 Yr 6 hr Call-to-Repair Onsite (UW493E)
	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 **www.hp.com/networking/services** 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.

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IEEE 802.3u 100BASE-X
IEEE 802.3x Flow Control
IEEE 802.3z 1000BASE-X

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RFC 1493 Bridge MIB
RFC 2021 RMONv2 MIB

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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
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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 1905 Switch Series accessories

Transceivers

HP X124 1G SFP LC SX Transceiver (JD493A)

HP X120 1G SFP LC LX Transceiver (JD119B)

HP X121 1G SFP LC SX Transceiver (J4858C)

HP X121 1G SFP LC LX Transceiver (J4859C)

HP X124 1G SFP LC LX Transceiver (JD494A)

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 Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable (QK732A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable (QK733A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable (QK734A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable (QK735A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable (QK736A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A)

To learn more, visit hp.com/networking