HP 1405 Small Office Series

Data sheet

Product overview

HP 1405 Series Switches are plug-and-play unmanaged fixed-port Layer 2 switches designed for small offices. The series includes 5-, 8-, and 16-port models in both Gigabit and Fast Ethernet configurations. The switches are preconfigured for fast, easy installation, with connections using low-cost Ethernet copper cabling. They support administration-friendly features such as auto-negotiation and automatic cable type detection (MDI/MDIX). They are Class B certified and approved for both business and home office locations. The 5- and 8-port v2 models (J9791A, J9792A, J9793A*, and J9794A) include energy-saving features such as Energy Efficient Ethernet (EEE) and idle-port power down. (*The J9793A will be available as of July 2012.) They are fanless for quiet and "green" operation, and designed for high reliability, long life, low power consumption, and low total cost of ownership. These switches come with a 3-year warranty, covering unit and adapter, and 3-year access to HP phone support.

Key features

- Entry-level switching for small offices
- Plug-and-play; no configuration required
- Energy saving; EEE and port power-down (v2 only)
- Quality of Service (IEEE 802.1p)
- 3-year warranty

Features and benefits

Quality of Service (QoS)

- **IEEE 802.1p prioritization with DSCP:** v2 devices deliver data to devices based on the priority and type of traffic using Differentiated Services Code Point (DSCP)

Connectivity

- **Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100 and 10/100/1000 ports

- **Jumbo packet support (Gigabit Ethernet models only):** supports up to 9216-byte frame size to improve performance of large data transfers

- **Mini-Jumbo packet support (Fast Ethernet models only):** supports up to 1.5K-byte or 2K-byte frame size to improve performance of large data transfers

Performance

- **Half-/Full-duplex auto-negotiating capability on every port:** doubles the throughput of every port

Ease of use

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

- **Comprehensive LED display with per-port indicators:** provides an at-a-glance view of status, activity, speed, and full-duplex operation

- **Unmanaged:** provides plug-and-play simplicity

Flexibility

- **Fanless design:** enables quiet operation for deployment in open spaces (selected models)

Additional information

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

- **Energy savings:** utilizes Energy Efficient Ethernet (EEE) standard IEEE 802.3az and idle-port power down for energy savings (v2 only)

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

HP 1405 Small Office Series

Specifications

	HP 1405-5G Switch (J9792A)	HP 1405-8G Switch (J9794A)	HP 1405-16G Desktop Switch (JD844A)
Ports	5 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	8 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	16 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
Physical characteristics	4.5(w) x 3.6(d) x 1.4(h) in (11.43 x 9.14 x 3.56 cm)	6.1(w) x 3.6(d) x 1.4(h) in (15.49 x 9.14 x 3.56 cm)	8.2(w) x 6.3(d) x 1.6(h) in (20.83 x 16 x 4.06 cm)
Weight	0.4 lb (0.18 kg)	0.5 lb (0.23 kg)	1.9 lb (0.86 kg)
Memory and processor	1 MB	2 MB	2 MB
Mounting	Desktop (rear port)	Desktop (rear port)	Desktop (rear port)
Performance			
100 Mb Latency	< 4.1 μs	< 3.9 μs	< 5 μs
1000 Mb Latency	< 2.6 μs	< 2.6 μs	< 5 μs
Throughput	up to 7.4 million pps	up to 11.8 million pps	up to 23.7 million pps
Routing/Switching capacity	10 Gbps	16 Gbps	32 Gbps
MAC address table size	2048 entries	8192 entries	8192 entries
Environment			
Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Operating relative humidity	15% to 95%, noncondensing	15% to 95%, 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	15% to 95%, noncondensing	15% to 95%, noncondensing	10% to 95%, noncondensing
Acoustic	fanless	fanless	fanless
Electrical characteristics			
Voltage	100-240 VAC	100-240 VAC	100-240 VAC
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
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	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR22 Class B	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR22 Class B	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR22 Class B
Notes	Also known as HP 1405-5G v2 Switch.	Also known as HP 1405-8G v2 Switch.	The HP 1405-16G Desktop Switch (JD844A) was formerly sold as the 3Com OfficeConnect Gigabit Switch 16 (3C1671600A).
Services	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.	3-year, 4-hour onsite, 13x5 coverage for hardware (UV780E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW476E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW479E) 3-year, 24x7 SW phone support, software updates (UV783E) 1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR678E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR679E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR680E) Installation with minimum configuration, system-based pricing (UW451E) Installation with minimum configuration, system-based pricing (UY901E) Installation with HP-provided configuration, system-based pricing (UY902E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV781E)

Specifications (continued)

	HP 1405-5G Switch (J9792A)	HP 1405-8G Switch (J9794A)	HP 1405-16G Desktop Switch (JD844A)
			4-year, 4-hour onsite, 24x7 coverage for hardware (UW477E)
			4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW480E)
			4-year, 24x7 SW phone support, software updates (UV784E)
			5-year, 4-hour onsite, 13x5 coverage for hardware (UV782E)
			5-year, 4-hour onsite, 24x7 coverage for hardware (UW478E)
			5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW481E)
			5-year, 24x7 SW phone support, software updates (UV785E)
			3 Yr 6 hr Call-to-Repair Onsite (UW482E)
			4 Yr 6 hr Call-to-Repair Onsite (UW483E)
			5 Yr 6 hr Call-to-Repair Onsite (UW484E)
			1-year, 6 hour Call-To-Repair Onsite for hardware (HR681E)
			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)

General protocols
IEEE 802.1p Priority
IEEE 802.3az Energy Efficient Ethernet
IEEE 802.3x Flow Control

Specifications (continued)

	HP 1405-5 Switch (J9791A)	HP 1405-8 Switch (J9793A)	HP 1405-16 Desktop Switch (JD858A)
Ports	5 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	8 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	16 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
Physical characteristics	4.5(w) x 3.6(d) x 1.4(h) in (11.43 x 9.15 x 3.05 cm)	6.1(w) x 3.6(d) x 1.4(h) in (15.49 x 9.14 x 3.56 cm)	8.2(w) x 6.3(d) x 1.6(h) in (20.83 x 16 x 4.06 cm)
Weight	0.4 lb (0.18 kg)	0.5 lb (0.23 kg)	1.4 lb (0.64 kg)
Memory and processor	384 KB	768 KB	1.6 MB
Mounting	Desktop (rear port)	Desktop (rear port)	Desktop (rear port)
Performance			
100 Mb Latency	< 3.2 µs	< 2.9 µs	< 5 µs
Throughput	up to 0.7 million pps	up to 1.2 million pps	up to 2.4 million pps
Routing/Switching capacity	1 Gbps	1.6 Gbps	3.2 Gbps
MAC address table size	2048 entries	1024 entries	4096 entries
Environment			
Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Operating relative humidity	15% to 95%, noncondensing	15% to 95%, 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	15% to 95%, noncondensing	15% to 95%, noncondensing	10% to 95%, noncondensing
Acoustic	fanless	fanless	fanless
Electrical characteristics			
Voltage	100-240 VAC	100-240 VAC	100-240 VAC
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
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	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR22 Class B	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR22 Class B	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR22 Class B
Notes	Also known as HP 1405-5 v2 Switch.	Also known as HP 1405-8 v2 Switch. (Available as of July 2012)	The HP 1405-16 Desktop Switch (JD858A) was formerly sold as the 3Com OfficeConnect Fast Ethernet Switch 16 (3C16792C).
Services	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.	3-year, 4-hour onsite, 13x5 coverage for hardware (UV780E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW476E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW479E) 3-year, 24x7 SW phone support, software updates (UV783E) 1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR678E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR679E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR680E) Installation with minimum configuration, system-based pricing (UW451E) Installation with minimum configuration, system-based pricing (UY901E) Installation with HP-provided configuration, system-based pricing (UY902E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV781E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW477E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW480E)

Specifications (continued)

	HP 1405-5 Switch (J9791A)	HP 1405-8 Switch (J9793A)	HP 1405-16 Desktop Switch (JD858A)
			4-year, 24x7 SW phone support, software updates (UV784E)
			5-year, 4-hour onsite, 13x5 coverage for hardware (UV782E)
			5-year, 4-hour onsite, 24x7 coverage for hardware (UW478E)
			5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW481E)
			5-year, 24x7 SW phone support, software updates (UV785E)
			3 Yr 6 hr Call-to-Repair Onsite (UW482E)
			4 Yr 6 hr Call-to-Repair Onsite (UW483E)
			5 Yr 6 hr Call-to-Repair Onsite (UW484E)
			1-year, 6 hour Call-To-Repair Onsite for hardware (HR681E)
			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)

General protocols
IEEE 802.1p Priority
IEEE 802.3az Energy Efficient Ethernet
IEEE 802.3x Flow Control

Specifications (continued)

	HP 1405-5G Switch (JD869A)	HP 1405-8G Switch (JD871A)
Ports	5 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	8 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
Physical characteristics	4.6(w) x 3.6(d) x 1.2(h) in (11.68 x 9.14 x 3.05 cm)	6.2(w) x 3.6(d) x 1.2(h) in (15.75 x 9.14 x 3.05 cm)
Weight	0.39 lb (0.18 kg)	0.53 lb (0.24 kg)
Memory and processor	1 MB	1.5 MB
Mounting	Desktop (rear port)	Desktop (rear port)
Performance		
100 Mb Latency	< 5 μs	< 5 μs
1000 Mb Latency	< 5 μs	< 5 μs
Throughput	up to 7.4 million pps	up to 11.9 million pps
Routing/Switching capacity	10 Gbps	16 Gbps
MAC address table size	4096 entries	8192 entries
Environment		
Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°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		
Voltage	100-240 VAC	100-240 VAC
Frequency	50/60 Hz	50/60 Hz
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	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR22 Class B	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR22 Class B
Notes	The HP 1405-5G (JD869A) Switch was formerly sold as the 3Com Gigabit Switch 5 (3CGSU05A).	The HP 1405-8G (JD871A) Switch was formerly sold as the 3Com Gigabit Switch 8 (3CGSU08A).
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV780E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW476E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW479E) 3-year, 24x7 SW phone support, software updates (UV783E) 1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR678E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR679E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR680E) Installation with minimum configuration, system-based pricing (UY901E) Installation with HP-provided configuration, system-based pricing (UY902E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV781E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW477E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW480E) 4-year, 24x7 SW phone support, software updates (UV784E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV782E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UW478E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW481E) 5-year, 24x7 SW phone support, software updates (UV785E) 3 Yr 6 hr Call-to-Repair Onsite (UW482E) 4 Yr 6 hr Call-to-Repair Onsite (UW483E) 5 Yr 6 hr Call-to-Repair Onsite (UW484E) 1-year, 6 hour Call-To-Repair Onsite for hardware (HR681E) 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.	3-year, 4-hour onsite, 13x5 coverage for hardware (UV780E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW476E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW479E) 3-year, 24x7 SW phone support, software updates (UV783E) 1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR678E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR679E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR680E) Installation with minimum configuration, system-based pricing (UW451E) Installation with minimum configuration, system-based pricing (UY901E) Installation with HP-provided configuration, system-based pricing (UY902E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV781E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW477E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW480E) 4-year, 24x7 SW phone support, software updates (UV784E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV782E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UW478E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW481E) 5-year, 24x7 SW phone support, software updates (UV785E) 3 Yr 6 hr Call-to-Repair Onsite (UW482E) 4 Yr 6 hr Call-to-Repair Onsite (UW483E) 5 Yr 6 hr Call-to-Repair Onsite (UW484E) 1-year, 6 hour Call-To-Repair Onsite for hardware (HR681E)

Specifications (continued)

	HP 1405-5G Switch (JD869A)	HP 1405-8G Switch (JD871A)
		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)	**General protocols** IEEE 802.1p Priority IEEE 802.3az Energy Efficient Ethernet IEEE 802.3x Flow Control	

Specifications (continued)

	HP 1405-5 Switch (JD866A)	HP 1405-8 Switch (JD867A)
Ports	5 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	8 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
Physical characteristics	5.6(w) x 4.3(d) x 1.2(h) in (14.22 x 10.92 x 3.05 cm)	7.0(w) x 4.3(d) x 1.2(h) in (17.78 x 10.92 x 3.05 cm)
Weight	1 lb (0.45 kg)	0.44 lb (0.2 kg)
Memory and processor	64 KB	128 KB
Mounting	Desktop (rear port)	Desktop (rear port)
Performance		
100 Mb Latency	< 5 µs	< 5 µs
Throughput	up to 0.7 million pps	up to 1.2 million pps
Routing/Switching capacity	1 Gbps	1.6 Gbps
MAC address table size	2048 entries	2048 entries
Environment		
Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°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		
Voltage	100-240 VAC	100-240 VAC
Frequency	50/60 Hz	50/60 Hz
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	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR22 Class B	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR22 Class B
Notes	The HP 1405-5 Switch (JD866A) was formerly sold as the 3Com Switch 5 (3CFSU05).	The HP 1405-8 Switch (JD867A) was formerly sold as the 3Com Switch 8 (3CFSU08).
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV780E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV780E)
	3-year, 4-hour onsite, 24x7 coverage for hardware (UW476E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UW476E)
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW479E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW479E)
	3-year, 24x7 SW phone support, software updates (UV783E)	3-year, 24x7 SW phone support, software updates (UV783E)
	1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR678E)	1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR678E)
	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR679E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR679E)
	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR680E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR680E)
	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 HP-provided configuration, system-based pricing (UY902E)
	4-year, 4-hour onsite, 13x5 coverage for hardware (UV781E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UV781E)
	4-year, 4-hour onsite, 24x7 coverage for hardware (UW477E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UW477E)
	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW480E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW480E)
	4-year, 24x7 SW phone support, software updates (UV784E)	4-year, 24x7 SW phone support, software updates (UV784E)
	5-year, 4-hour onsite, 13x5 coverage for hardware (UV782E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UV782E)
	5-year, 4-hour onsite, 24x7 coverage for hardware (UW478E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UW478E)
	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW481E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW481E)
	5-year, 24x7 SW phone support, software updates (UV785E)	5-year, 24x7 SW phone support, software updates (UV785E)
	3 Yr 6 hr Call-to-Repair Onsite (UW482E)	3 Yr 6 hr Call-to-Repair Onsite (UW482E)
	4 Yr 6 hr Call-to-Repair Onsite (UW483E)	4 Yr 6 hr Call-to-Repair Onsite (UW483E)
	5 Yr 6 hr Call-to-Repair Onsite (UW484E)	5 Yr 6 hr Call-to-Repair Onsite (UW484E)
	1-year, 6 hour Call-To-Repair Onsite for hardware (HR681E)	1-year, 6 hour Call-To-Repair Onsite for hardware (HR681E)
	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)	**General protocols** IEEE 802.1p Priority IEEE 802.3az Energy Efficient Ethernet IEEE 802.3x Flow Control	