HP 1405 Small Office Switch Series

Key features

• Entry-level switching for small offices

• Plug and play; no configuration required

• Energy efficient, with EEE and idle-port power down (v2 models)

• Quality of Service (IEEE 802.1p and DSCP)

• 3-year warranty

Product overview

The HP 1405 Small Office Switch Series consists of plug-and-play unmanaged 5-, 8-, and 16-port Layer 2 switches designed for small offices, in both Gigabit Ethernet and Fast Ethernet configurations. The 1405 Small Office 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), and are FCC Class B certified and approved for both business and home office locations.The 5- and 8-port models have energy-saving features such as Energy Efficient Ethernet (EEE) and idle-port power down. All models are fanless for quiet and "green" operation, and are designed for high reliability, long life, low power consumption, and low total cost of ownership. HP 1405 Small Office switches come with a 3-year warranty, which covers the unit and adapter, as well as provides 3-year access to HP phone support.

Features and benefits

Quality of Service (QoS)

- **Traffic prioritization (IEEE 802.1p)**
  allows real-time traffic classification mapped to multiple hardware queues (Gigabit Ethernet v2 models support four hardware queues per port; other models support two hardware queues per port)

- **Class of Service (CoS)**
  prioritizes traffic by honoring 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 the 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

- **Compatible**
  supports Windows® and Mac OS platforms

Flexibility

- **Fanless design**
  enables quiet operation for deployment in open spaces

Additional information

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

- **Energy savings**
  5- and 8-port models utilize the Energy Efficient Ethernet (EEE) standard (IEEE 802.3az) and idle-port power down for energy savings

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 Switch Series

Specifications

	HP 1405-5G V2 Switch (J9792A)	HP 1405-8G V2 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	packet buffer size: 1 MB	packet buffer size: 2 MB	packet buffer size: 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			
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Voltage	100-240 VAC	100-240 VAC	100-240 VAC
Maximum power rating	2.0 W	4.0 W	13.0 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.	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	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR 22 Class B	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR 22 Class B	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR 22 Class B
Notes			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)

HP 1405 Small Office Switch Series

Specifications (continued)

HP 1405-5G V2 Switch (J9792A)	HP 1405-8G V2 Switch (J9794A)	HP 1405-16G Desktop Switch (JD844A)
		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.

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

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Specifications (continued)

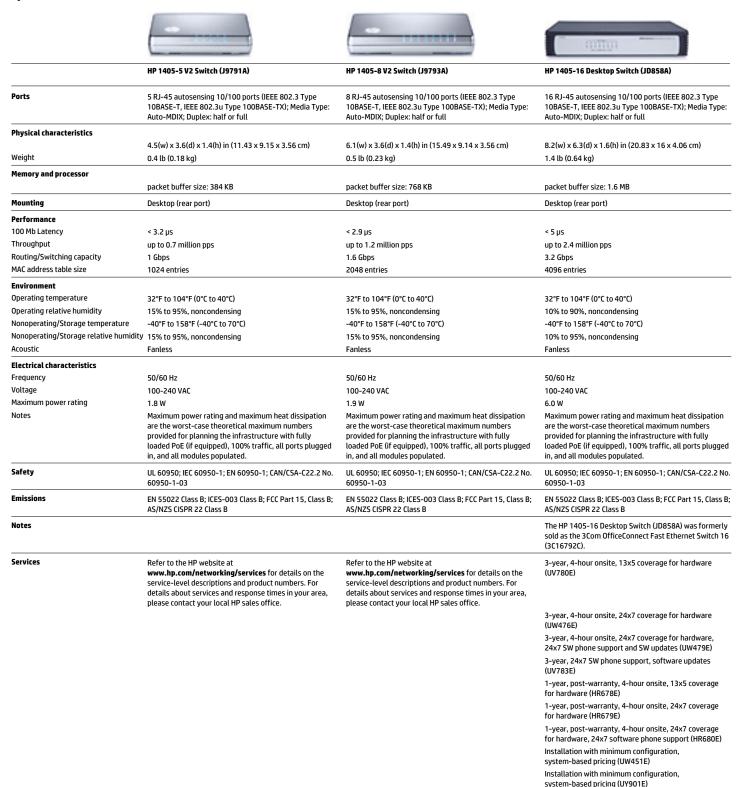|	HP 1405-5 V2 Switch (J9791A)	HP 1405-8 V2 Switch (J9793A)	HP 1405-16 Desktop Switch (JD858A)
Ports	5 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Media Type: Auto-MDIX; Duplex: half or full	8 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u 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 3.56 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)	1.4 lb (0.64 kg)
Memory and processor	packet buffer size: 384 KB	packet buffer size: 768 KB	packet buffer size: 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	1024 entries	2048 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			
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Voltage	100-240 VAC	100-240 VAC	100-240 VAC
Maximum power rating	1.8 W	1.9 W	6.0 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.	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	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR 22 Class B	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR 22 Class B	EN 55022 Class B; ICES-003 Class B; FCC Part 15, Class B; AS/NZS CISPR 22 Class B
Notes			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)

Specifications (continued)

	HP 1405-5 V2 Switch (J9791A)	HP 1405-8 V2 Switch (J9793A)	HP 1405-16 Desktop Switch (JD858A)
			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.

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

To learn more, visit hp.com/networking