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

<table>
<thead>
<tr>
<th>Model</th>
<th>HP 1405-5G Switch (J9792A)</th>
<th>HP 1405-8G Switch (J9794A)</th>
<th>HP 1405-16G Desktop Switch (JD844A)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ports</strong></td>
<td>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</td>
<td>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</td>
<td>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</td>
</tr>
</tbody>
</table>

| Physical characteristics | | | |
| **Weight** | 4.5(l) x 3.6(d) x 1.4(h) in (11.43 x 9.14 x 3.56 cm) | 6.1(l) x 3.6(d) x 1.4(h) in (15.49 x 9.14 x 3.56 cm) | 8.2(l) x 6.3(d) x 1.6(h) in (20.83 x 16 x 4.06 cm) |

| Memory and processor | | | |
| **Weight** | 0.4 lb (0.18 kg) | 0.5 lb (0.23 kg) | 1.9 lb (0.86 kg) |

| 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 93%, noncondensing | 15% to 93%, noncondensing | 10% to 95%, 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 | | | |

| 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](http://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](http://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 (UV476E) | 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV479E) | 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 (UV451E) | Installation with minimum configuration, system-based pricing (UV901E) | Installation with HP-provided configuration, system-based pricing (UV902E) |
| 4-year, 4-hour onsite, 13x5 coverage for hardware (UV781E) | 4-year, 4-hour onsite, 24x7 coverage for hardware (UV782E) | |
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Specifications (continued)

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<td>4-year, 24x7 SW phone support, software updates (UV784E)</td>
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<td>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW480E)</td>
<td>5-year, 4-hour onsite, 13x5 coverage for hardware (UV782E)</td>
<td>5-year, 4-hour onsite, 24x7 coverage for hardware (UW478E)</td>
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<td>5-year, 4-hour onsite, 13x5 coverage for hardware (UV782E)</td>
<td>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW481E)</td>
<td>5-year, 24x7 SW phone support, software updates (UV785E)</td>
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<td>5 Yr 6 hr Call-to-Repair Onsite (UW484E)</td>
<td>1-year, 6 hour Call-To-Repair Onsite for hardware (HR681E)</td>
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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)
- IEEE 802.1p Priority
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 802.3x Flow Control

General protocols
## Specifications (continued)

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<td>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</td>
</tr>
<tr>
<td><strong>Physical characteristics</strong></td>
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<tr>
<td></td>
<td>(4.5(w) x 3.6(d) x 1.4(h) in (11.43 x 9.15 x 3.05 cm)</td>
<td>(6.1(w) x 3.6(d) x 1.4(h) in (15.49 x 9.14 x 3.56 cm)</td>
<td>(8.2(w) x 6.3(d) x 1.6(h) in (20.83 x 16 x 4.06 cm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>0.4 lb (0.18 kg)</td>
<td>0.5 lb (0.23 kg)</td>
<td>1.4 lb (0.64 kg)</td>
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<tr>
<td><strong>Memory and processor</strong></td>
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<tr>
<td></td>
<td>384 KB</td>
<td>768 KB</td>
<td>1.6 MB</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>Desktop (rear port)</td>
<td>Desktop (rear port)</td>
<td>Desktop (rear port)</td>
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<tr>
<td><strong>Performance</strong></td>
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<tr>
<td>100 Mb Latency</td>
<td>&lt; 3.2 µs</td>
<td>&lt; 2.9 µs</td>
<td>&lt; 5 µs</td>
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<tr>
<td>Throughput</td>
<td>up to 0.7 million pps</td>
<td>up to 1.2 million pps</td>
<td>up to 2.4 million pps</td>
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<tr>
<td>Routing/Switching capacity</td>
<td>1 Gbps</td>
<td>1.6 Gbps</td>
<td>3.2 Gbps</td>
</tr>
<tr>
<td>MAC address table size</td>
<td>2048 entries</td>
<td>1024 entries</td>
<td>4096 entries</td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td></td>
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</tr>
<tr>
<td>Operating temperature</td>
<td>32°F to 104°F (0°C to 40°C)</td>
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<td>Operating relative humidity</td>
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</tr>
<tr>
<td>Acoustic</td>
<td>fanless</td>
<td>fanless</td>
<td>fanless</td>
</tr>
<tr>
<td><strong>Electrical characteristics</strong></td>
<td></td>
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<tr>
<td>Voltage</td>
<td>100-240 VAC</td>
<td>200-240 VAC</td>
<td>200-240 VAC</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td><strong>Safety</strong></td>
<td>UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03</td>
<td>UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03</td>
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<tr>
<td><strong>Emissions</strong></td>
<td>EN 55022 Class B; IEC-003 Class B; FCC Part 15, Class B; AS/NZS CISPR22 Class B</td>
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<tr>
<td><strong>Notes</strong></td>
<td>Also known as HP 1405-5 v2 Switch.</td>
<td>Also known as HP 1405-8 v2 Switch. (Available as of July 2012)</td>
<td>The HP 1405-16 Desktop Switch (JD858A) was formerly sold as the 3Com OfficeConnect Fast Ethernet Switch 16 (3C16792C)</td>
</tr>
<tr>
<td><strong>Services</strong></td>
<td>Refer to the HP website at <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</td>
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<td>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and 5W updates (UW479E)</td>
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<td>3-year, 24x7 SW phone support, software updates (UW783E)</td>
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<td>1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR678E)</td>
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<td>1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR679E)</td>
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<td></td>
<td>3-year, 24x7 coverage for hardware, 24x7 software phone support (HR680E)</td>
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<td>Installation with minimum configuration, system-based pricing (UV451E)</td>
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<td></td>
<td>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UW480E)</td>
</tr>
</tbody>
</table>
## Specifications (continued)

### Standards and protocols
- **General protocols**
  - IEEE 802.1p Priority
  - IEEE 802.3az Energy Efficient Ethernet
  - IEEE 802.3x Flow Control

### General Information
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<td>5-year, 4-hour onsite, 13x5 coverage for hardware (UV782E)</td>
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<td>5-year, 24x7 SW phone support, software updates (UV785E)</td>
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<td>3 Yr 6 hr Call-to-Repair Onsite (UW482E)</td>
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<td>1-year, 6 hour Call-To-Repair Onsite for hardware (HR683E)</td>
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Specifications (continued)

**HP 1405-5G Switch (JD869A)**

**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

**Physical characteristics**
- Weight: 4.6(lb) x 3.6(d) x 1.2(h) in (11.68 x 9.14 x 3.05 cm) - 0.39 lb (0.18 kg)

**Memory and processor**
- 1 MB

**Mounting**
- Desktop (rear port)

**Performance**
- 100 Mb Latency: < 5 µs
- 1000 Mb Latency: < 5 µs
- Throughput: up to 7.4 million pps

**Environment**
- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Nonoperating/Storage temperature: -40°F to 158°F (-40°C to 70°C)
- Nonoperating/Storage relative humidity: 10% to 95%, noncondensing
- Operating relative humidity: 10% to 90%, noncondensing

**Acoustic**
- Fanless

**Electrical characteristics**
- Voltage: 100-240 VAC
- Frequency: 50/60 Hz

**Safety**
- 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

**Notes**
- The HP 1405-5G Switch (JD869A) was formerly sold as the 3Com Gigabit Switch 5 (3CGSU05A).

**Services**
- 3-year, 4-hour onsite, 13x5 coverage for hardware (U7V80E)
- 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 (U7V83E)
- 1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR676E)
- 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 (U7V81E)
- 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 (U7V84E)
- 5-year, 4-hour onsite, 13x5 coverage for hardware (U7V82E)
- 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 (U7V85E)

Refer to the HP website at [www.hp.com/networking/services](http://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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**HP 1405-8G Switch (JD871A)**

**Ports**
- 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**
- Weight: 6.2(lb) x 3.6(d) x 1.2(h) in (15.75 x 9.14 x 3.05 cm) - 0.53 lb (0.24 kg)

**Memory and processor**
- 1.5 MB

**Mounting**
- Desktop (rear port)

**Performance**
- 100 Mb Latency: < 5 µs
- 1000 Mb Latency: < 5 µs
- Throughput: up to 11.9 million pps

**Environment**
- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Nonoperating/Storage temperature: -40°F to 158°F (-40°C to 70°C)
- Nonoperating/Storage relative humidity: 10% to 95%, noncondensing

**Acoustic**
- Fanless

**Electrical characteristics**
- Voltage: 100-240 VAC
- Frequency: 50/60 Hz

**Safety**
- 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

**Notes**
- The HP 1405-8G Switch (JD871A) was formerly sold as the 3Com Gigabit Switch 8 (3CGSU08A).

**Services**
- 3-year, 4-hour onsite, 13x5 coverage for hardware (U7V80E)
- 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 (U7V83E)
- 1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR676E)
- 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 (U7V81E)
- 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 (U7V84E)
- 5-year, 4-hour onsite, 13x5 coverage for hardware (U7V82E)
- 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 (U7V85E)

Refer to the HP website at [www.hp.com/networking/services](http://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 | HP 1405-5G Switch (JD869A)
IEEE 802.3az Energy Efficient Ethernet | HP 1405-8G Switch (JD871A)
IEEE 802.3x Flow Control

Refer to the HP website at [www.hp.com/networking/services](http://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.
Specifications (continued)

HP 1405 Small Office Series

[18x716]Specifications (continued)

[19x93](applies to all products in series)

[19x100]Standards and protocols

[19x345]Notes

[19x377]Safety

[19x390]Frequency

[19x399]Voltage

[19x408]Electrical characteristics

[19x421]Acoustic

[19x430]Nonoperating/Storage relative humidity

[19x440]Nonoperating/Storage temperature

[19x449]Operating relative humidity

[19x459]Operating temperature

[19x467]Environment

[19x480]MAC address table size

[19x489]Routing/Switching capacity

[19x499]Throughput

[19x508]100 Mb Latency

[19x517]Performance

[19x530]Mounting

[19x551]Memory and processor

[19x564]Weight

[19x582]Physical characteristics

[19x602]Ports

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**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-MDIIX, 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-MDIIX, Duplex: half or full

### Physical characteristics
- **Weight**
  - HP 1405-5 Switch: 5.6 lb (0.45 kg)
  - HP 1405-8 Switch: 7.0 lb (0.44 kg)
- **Memory and processor**
  - 64 KB

### Performance
- 100 Mb Latency: < 5 µs
- Throughput: up to 0.7 million pps
- Routing/Switching capacity: 1 Gbps
- MAC address table size: 2048 entries

### Environment
- **Operating temperature**
  - HP 1405-5 Switch: 32°F to 104°F (0°C to 40°C)
  - HP 1405-8 Switch: 32°F to 104°F (0°C to 40°C)
- **Nonoperating/Storage temperature**
  - HP 1405-5 Switch: -40°F to 158°F (-40°C to 70°C)
  - HP 1405-8 Switch: -40°F to 158°F (0°C to 70°C)
- **Nonoperating/Storage relative humidity**
  - HP 1405-5 Switch: 10% to 90%, noncondensing
  - HP 1405-8 Switch: 10% to 90%, noncondensing
- **Acoustic**
  - Fanless

### Electrical characteristics
- **Voltage**
  - 100-240 VAC
- **Frequency**
  - 50/60 Hz

### Safety
- UL 60950, IEC 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

### 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, 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, postwarranty, 4-hour onsite, 13x5 coverage for hardware (HR678E)
- 1-year, postwarranty, 4-hour onsite, 24x7 coverage for hardware (HR679E)
- 1-year, postwarranty, 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 SW phone support (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 (UW488E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support (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
- IEEE 802.1p Priority
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 802.3x Flow Control

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**General protocols**

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.