Datasheet

HP ProCurve Switch 1700 Series

The HP ProCurve Switch 1700 Series consists of two 10/100, fanless, Web-managed switches that are ideal for open offices that require silent operation or businesses making the transition from unmanaged to managed networks. The HP ProCurve Switch 1700-24 is a 24-port switch with 22 10/100 ports plus 2 dual-personality ports. The HP ProCurve Switch 1700-8 is a small-form-factor switch with seven 10/100 ports and one 10/100/1000 port. The ProCurve Switch 1700 Series enables increased network capabilities without added complexity.
HP ProCurve Switch 1700 Series

Features and benefits

Industry-leading warranty

Resiliency and high availability

- IEEE 802.3ad Link Aggregation Control Protocol (LACP): provides link-level redundancy; support for up to 4 trunks, with up to 7 links (ports) per trunk on the ProCurve Switch 1700-8, and support for 12 trunks, with up to 8 links (ports) per trunk on the ProCurve Switch 1700-24

Layer 2 switching

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

Security

- Management password: provides security so that only authorized access to the Web browser interface is allowed

Quality of Service (QoS)

- IEEE 802.1p prioritization: delivers data to devices by honoring the priority and type of traffic
- Broadcast control: allows limitation of broadcast traffic rate to cut down on unwanted broadcast traffic on the network

Manageability

- Intuitive Web interface: enables simple management via an easy-to-use Web browser interface for switch configuration, monitoring, and administration
- Integration with HP ProCurve Manager: enables discovery and mapping via ProCurve Manager, available as a free download from the Web
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP): automated device discovery protocol for easy mapping by network management applications

Monitor and diagnostics

- Port mirroring: enables traffic on a port to be simultaneously sent to a network analyzer for monitoring

Ease of use

- Comprehensive LED display with per-port indicators: provides an at-a-glance view of status, activity, speed, and full-duplex operation
- ProCurve/IEEE Auto-MDIX: automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports

Flexibility

- Small form factor: ideal for desktop use; space efficient for deployment flexibility (1700-8 switch only)
- Designed with no fan: enables quiet operation for deployment in open spaces

Warranty and support

- ProCurve Lifetime Warranty: for as long as you own the product, with next-business-day advance replacement (available in most countries).
- Electronic and telephone support: limited electronic and telephone support is available from HP. Refer to the HP Web site at www.procurve.com/support for details on the support provided and the period during which support is available.
- Software releases: refer to the HP Web site at www.procurve.com/support for details on the software releases provided and the period during which software releases are available.

For as long as you own the product, with next-business-day advance replacement (available in most countries). The following hardware products and their related series modules have a one-year hardware warranty with extensions available: HP ProCurve Routing Switch 9300m Series, HP ProCurve Switch 8100fl Series, and HP ProCurve Network Access Controller 800. The following hardware mobility products have a one-year hardware warranty with extensions available: HP ProCurve M111 Client Bridge, HP ProCurve MSM3xx-R Access Points, HP ProCurve MSM7xx Mobility and Access Controllers, HP ProCurve RF Manager IDS/IPS Systems, HP ProCurve MSM Power Supplies, HP ProCurve 1-Port Power Injector, and HP ProCurve CNMS Appliances. Disk drives in the HP ProCurve ONE Services zl Modules have a five-year hardware warranty. Standalone software, upgrades, or licenses may have a different warranty duration. For details, refer to the ProCurve Software License, Warranty, and Support booklet at http://www.procurve.com/warranty.
## HP ProCurve Switch 1700 Series

### Specifications

<table>
<thead>
<tr>
<th>HP ProCurve Switch 1700-24 (J9080A)</th>
<th>HP ProCurve Switch 1700-8 (J9079A)</th>
</tr>
</thead>
</table>

#### Ports

- **HP ProCurve Switch 1700-24 (J9080A):**
  - 22 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Media Type: Auto-MDIX; Duplex: half or full
  - 2 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T, IEEE 802.3ab Type 100Base-TX, IEEE 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers)

- **HP ProCurve Switch 1700-8 (J9079A):**
  - 7 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Media Type: Auto-MDIX; Duplex: half or full
  - 1 auto-sensing 10/100/1000 port (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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>6.74(d) x 17.42(w) x 1.73(h) in. (17.12 x 44.25 x 4.39 cm) (1U height)</th>
<th>4.58(d) x 7.73(w) x 1.73(h) in. (11.63 x 19.63 x 4.39 cm) (1U height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>4.38 lb. (1.99 kg)</td>
<td>1.19 lb. (0.54 kg)</td>
</tr>
</tbody>
</table>

#### Memory and processor

- **HP ProCurve Switch 1700-24 (J9080A):**
  - 2 MB flash, 2 MB RAM/ROM capacity; packet buffer size: 500 KB

- **HP ProCurve Switch 1700-8 (J9079A):**
  - 1 MB flash, 1 MB RAM/ROM capacity; packet buffer size: 144 KB

#### Mounting

- **HP ProCurve Switch 1700-24 (J9080A):**
  - Mounts in an EIA-standard 19 in. telco racks (hardware included)

- **HP ProCurve Switch 1700-8 (J9079A):**
  - Horizontal surface mounting only

#### Performance

<table>
<thead>
<tr>
<th>100 Mb Latency</th>
<th>&lt; 4.7 µs (64-byte packets)</th>
<th>&lt; 3.9 µs (64-byte packets)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 Mb Latency</td>
<td>&lt; 3.0 µs (64-byte packets)</td>
<td>&lt; 2.1 µs (64-byte packets)</td>
</tr>
<tr>
<td>Throughput</td>
<td>up to 6.2 million pps (64-byte packets)</td>
<td>up to 2.0 million pps (64-byte packets)</td>
</tr>
<tr>
<td>Switching capacity</td>
<td>8.4 Gbps</td>
<td>3.4 Gbps</td>
</tr>
<tr>
<td>MAC address table size</td>
<td>8000 entries</td>
<td>8000 entries</td>
</tr>
</tbody>
</table>

#### Environment

<table>
<thead>
<tr>
<th>Operating temperature</th>
<th>32ºF to 104ºF (0ºC to 40ºC)</th>
<th>32ºF to 104ºF (0ºC to 40ºC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating relative humidity</td>
<td>15% to 95% @ 104ºF (40ºC), non-condensing</td>
<td>15% to 96% @ 104ºF (40ºC), non-condensing</td>
</tr>
<tr>
<td>Non-operating/Storage temperature</td>
<td>-40ºF to 158ºF (-40ºC to 70ºC)</td>
<td>-40ºF to 158ºF (-40ºC to 70ºC)</td>
</tr>
<tr>
<td>Non-operating/Storage relative humidity</td>
<td>10% to 90% @ 149ºF (65ºC), non-condensing</td>
<td>10% to 90% @ 149ºF (65ºC), non-condensing</td>
</tr>
<tr>
<td>Altitude</td>
<td>up to 10000 ft. (3 km)</td>
<td>up to 10000 ft. (3 km)</td>
</tr>
<tr>
<td>Acoustic</td>
<td>Power: 0 dB No Fan</td>
<td>Power: 0 dB No Fan</td>
</tr>
</tbody>
</table>

#### Electrical characteristics

| Maximum heat dissipation | 82 BTU/hr (87 kJ/hr) | 61 BTU/hr (64 kJ/hr) |
| Voltage                 | 100-127 / 200-240 VAC  | 100-127 / 200-240 VAC  |
### HP ProCurve Switch 1700 Series

<table>
<thead>
<tr>
<th>Current</th>
<th>0.7 / 0.4 A</th>
<th>1.0 / 0.8 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption</td>
<td>24 W</td>
<td>18 W</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 / 60 Hz</td>
<td>50 / 60 Hz</td>
</tr>
</tbody>
</table>

**Notes**

- Maximum power rating is the worst-case theoretical maximum power number with fully loaded PoE, 100% traffic, all ports plugged in, and all modules populated.
- The exact input voltage and frequency rating are determined by the specific power adapter part number ordered. Please select the correct power adapter country option.

## Safety

- CSA 22.2 No. 60950; EN 60950; UL 60950

## Emissions

- FCC Rules Part 15, Subpart B Class A; EN 55022; VCCI; ICES-003 (Canada)

## Immunity

- EN 55024, CISPR 24
- ESD: IEC 61000-4-2
- Radiated: IEC 61000-4-3
- EFT/Burst: IEC 61000-4-4
- Surge: IEC 61000-4-5
- Conducted: IEC 61000-4-6
- Power frequency magnetic field: IEC 61000-4-8
- Voltage dips and interruptions: IEC 61000-4-11
- Harmonics: IEC 61000-3-2
- Flicker: IEC 61000-3-3

## Management

- HP ProCurve Manager; Web browser

## Services

- 3-year, 4-hour onsite, 13x5 coverage for hardware (UF803E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (UF804E)
- 3-year, 4-hour onsite, 24x7 software phone support (UF806E)
- 3-year, 24x7 SW phone support, software updates (UF805E)
- Installation with minimum configuration, system-based pricing (U4826E)
- Installation with HP-provided configuration, system-based pricing (U4830E)

Refer to the HP Web site at [www.procurve.com/services](http://www.procurve.com/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

### General protocols

- IEEE 802.1p Priority
- IEEE 802.1Q VLANs
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)

### IEEE 802.3x Flow Control

- RFC 1534 DHCP/BOOTP Interoperation
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

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HP ProCurve Switch 1700 Series accessories

HP ProCurve Manager 2.3 (-)

HP ProCurve Switch 1700-24 (J9080A)

HP ProCurve Gigabit-SX-LC Mini-GBIC (J4858C)
HP ProCurve Gigabit-LX-LC Mini-GBIC (J4859C)
HP ProCurve Gigabit-LH-LC Mini-GBIC (J4860C)
NEW HP ProCurve 1000-BX-D SFP-LC Mini-GBIC (J9142B)
NEW HP ProCurve 1000-BX-U SFP-LC Mini-GBIC (J9143B)

For more information

To learn more about HP ProCurve Networking, please visit ProCurve.com

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