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Overview

HPE OfficeConnect 1820 Series switches are basic Gigabit web managed "smart" Layer 2 switches supporting Virtual LANs (VLANs) and Link Aggregation, designed for small businesses looking for key features in an easy to administer solution. This J9984A has 48 x 10/100/1000 ports, 24 of which support Power over Ethernet PoE+/PoE with a power budget of 370W. Additionally, the switch has four true non combo 1000/100 SFP ports for fiber connectivity. Part of the OfficeConnect portfolio of small business networking products from Hewlett Packard Enterprise.

Quick Spec

Figure 1 shows the appearance of HPE J9984A.

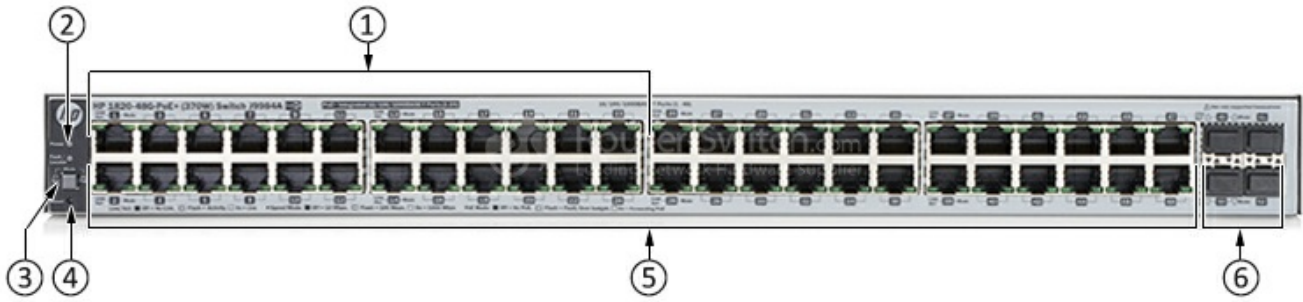


Table 1 shows the quick spec.

| | |
|---------------------------------------|---|
| Product Code | J9984A |
| Type | HPE 1820-48G-PoE+ (370W) Switch |
| Ports | <ul style="list-style-type: none"> · 24 x RJ-45 autosensing 10/100/1000 PoE+ ports; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only · 24 x 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); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only · 4 x SFP 100/1000 Mb/s ports (IEEE 802.3z Type 1000BASE-X, IEEE 802.3u Type 100BASE-FX) |
| Throughput: | Up to 77.3 Mp/s (64-byte packets) |
| Switching capacity | 104 Gb/s |
| PoE Power | 370W |
| Minimum dimensions (W x D x H) | 44.25 x 32.26 x 4.39 cm (17.42 x 12.7 x 1.73 in) (1U height) |
| Weight | 4.4 kg (9.7 lb) |

Product Details

Figure 2 shows the front panel of HPE J9984A.



Note:

| | |
|-----|------------------------------------|
| (1) | PoE+ ports 1-24 |
| (2) | Power and Fault/Locator LEDs |
| (3) | Mode button |
| (4) | Reset button |
| (5) | 48 x 10/100/1000BASE-T RJ-45 ports |
| (6) | 4 x SFP Ports |

Compare to Similar Items

Table 2 shows the comparison.

| Product Code | J9981A | J9983A | J9984A |
|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Type | HPE 1820-48G Switch | HPE 1820-24G-PoE+ (185W) Switch | HPE 1820-48G-PoE+ (370W) Switch |
| Throughput | Up to 77.3 Mp/s (64-byte packets) | Up to 38.6 Mp/s (64-byte packets) | Up to 77.3 Mp/s (64-byte packets) |
| Switching capacity | 104 Gb/s | 52 Gb/s | 104 Gb/s |
| PoE capability | N/A | 185 W | 370 W |

Get more information

Do you have any question about the J9984A?

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Specification

| J9984A Specifications | |
|-------------------------|--|
| Type | HPE 1820-48G-PoE+ (370W) Switch |
| Physical Specifications | |
| Dimensions (W x D x H) | 44.25 x 32.26 x 4.39 cm (17.42 x 12.7 x 1.73 in) (1U height) |
| Weight | 4.4 kg (9.7 lb) |

| Technical Specifications | |
|--|---|
| I/O ports and slots | <ul style="list-style-type: none"> · 24 RJ-45 autosensing 10/100/1000 PoE+ ports; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only · 24 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); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only · 4 SFP 100/1000 Mb/s ports (IEEE 802.3z Type 1000BASE-X, IEEE 802.3u Type 100BASE-FX) |
| Memory and processor | ARM Cortex-A9 @ 400 MHz, 128MB SDRAM; Packet buffer size: 1.5MB, 16MB flash |
| Performance | 100 Mb Latency: <7 μ s (LIFO 64-byte packets) 1000 Mb Latency: <2 μ s (LIFO 64-byte packets) Throughput: Up to 77.3 Mp/s (64-byte packets) Switching capacity: 104 Gb/s MAC address table size: 16000 entries |
| Reliability | MTBF (years): 45.05 |
| Management | Web browser |
| Environmental Specifications | |
| Operating temperature | 0° to 40°C (32° to 104°F) |
| Operating relative humidity | 15% to 95% @ 40°C (104°F) |
| Nonoperating/Storage temperature | -40° to 70°C (-40° to 158°F) |
| Nonoperating/Storage relative humidity | 15% to 95% @ 60°C (140°F) |
| Altitude | Up to 3 km (9,842 ft) |
| Acoustic | Power: 45 dB |
| Electrical Specifications | |
| Frequency | 50/60 Hz |
| Voltage | 100 - 127 / 200 - 240 V ac, rated (depending on power supply chosen) |
| Current | 5.1/2.6 A |
| Maximum power rating | 481 W |
| Idle power | 54.8 W |
| PoE power | 370 W PoE+ |
| Safety Certifications | |
| Safety | UL 60950-1; EN 60825; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1 |
| Emissions | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A F |
| Immunity | Generic: EN 55024, CISPR 24 EN: 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: EN 61000-3-2, IEC 61000-3-2 Flicker: EN 61000-3-3, IEC 61000-3-3 |

| Standard and protocols | |
|------------------------------|---|
| Denial of service protection | CPU DoS Protection |
| General protocols | IEEE 802.1D Spanning Tree Protocol IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1W Rapid Spanning Tree Protocol IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3x Flow Control RFC 1534 DHCP/BOOTP Interoperation RFC 2030 Simple Network Time Protocol (SNTP) v4 |
| Network management | IEEE 802.1AB Link Layer Discovery Protocol (LLDP) |

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