

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 J9981A has 48 x 10/100/1000 ports and four 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 J9981A.

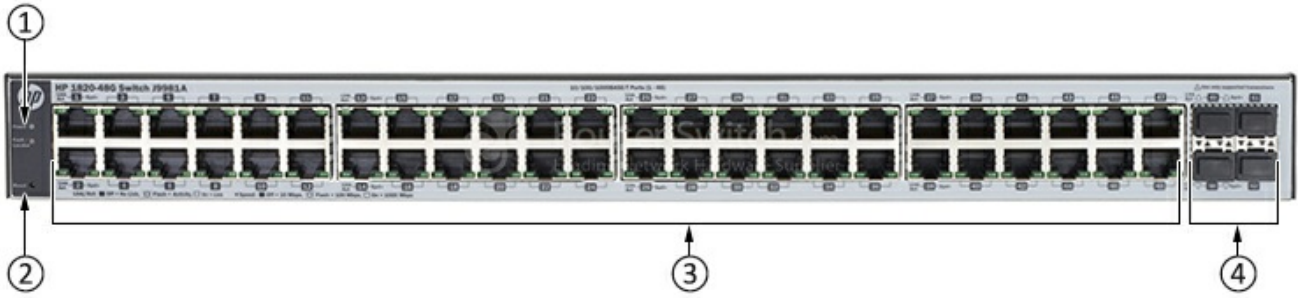


Table 1 shows the quick spec.

Product Code	J9981A
Type	HPE 1820-48G Switch
Ports	<ul style="list-style-type: none"> · 48 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 Mbps ports (IEEE 802.3z Type 1000BASE-X, IEEE 802.3u Type 100BASE-FX) Supports a maximum of 48 autosensing 10/100/1000 ports plus 4 SFP ports
Throughput:	Up to 77.3 Mp/s (64-byte packets)
Switching capacity	104 Gb/s
Minimum dimensions (W x D x H)	44.25 x 24.61 x 4.39 cm (17.42 x 9.69 x 1.73 in) (1U height)
Weight	3.31 kg (7.3 lb)

Product Details

Figure 2 shows the front panel of HPE J9981A.



Note:

(1)	Power and Fault/Locator LEDs
(2)	Reset button
(3)	48 × 10/100/1000BASE-T RJ-45 ports
(4)	4 × SFP slots

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

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Specification

J9981A Specifications	
Type	HPE 1820-48G Switch
Physical Specifications	
Dimensions (W x D x H)	44.25 x 24.61 x 4.39 cm (17.42 x 9.69 x 1.73 in) (1U height)
Weight	3.31 kg (7.3 lb)
Technical Specifications	

I/O ports and slots	<ul style="list-style-type: none"> · 48 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 Mbps ports (IEEE 802.3z Type 1000BASE-X, IEEE 802.3u Type 100BASE-FX) Supports a maximum of 48 autosensing 10/100/1000 ports plus 4 SFP ports
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): 61.73
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: 0 dB no fan
Electrical Specifications	
Frequency	50/60 Hz
Voltage	100 - 127 / 200 - 240 V ac, rated (depending on power supply chosen)
Current	0.8/0.5 A
Maximum power rating	39 W
Idle power	28.8 W
PoE power	-
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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