



Hewlett Packard HPE Support Center Enterprise

HPE 2910 al Switch Series - Specifications

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HPE ProCurve 2910al-24G Switch (J9145A)

Feature	Description
Dimensions(d)*(w)*(h)	36.58 x 44.2 x 4.39 cm (14.4 x 17.4x 1.73 in) (1U height)
Weight	4.95 kg (10.92 lb)
Mounting	Mounts in an EIA-standard 19 inch telco rack or equipment cabinet ; horizontal surface mounting only

Feature	Description
Operating temperature	<ul style="list-style-type: none"> 0°C to 55°C (32°F to 131°F)
Operating relative humidity	<ul style="list-style-type: none"> 15% to 95% @ 40°C (104°F), non-condensing
Non-operating/Storage temperature	<ul style="list-style-type: none"> -40°C to 70°C (-40°F to 158°F)
Non-operating/Storage relative humidity	<ul style="list-style-type: none"> 15% to 95% @ 65°C (149°F), non-condensing
Altitude	<ul style="list-style-type: none"> up to 3 km (10,000 ft)
Acoustic	<ul style="list-style-type: none"> Power: 53.5 dB, Pressure: 39.4 dB; DIN 45635T.19 per ISO 7779

Feature	Description
Voltage	<ul style="list-style-type: none"> 100-127/200-240 Vac
Current	<ul style="list-style-type: none"> 1.7/0.9 A
Idle power	<ul style="list-style-type: none"> 49 W
Power consumption	<ul style="list-style-type: none"> 82 W
Frequency	<ul style="list-style-type: none"> 50/60 Hz
Maximum heat dissipation	<ul style="list-style-type: none"> 295 kJ/hr (279 BTU/hr)
Description	<ul style="list-style-type: none"> The switch automatically adjusts to any voltage between 100-127 and 200-240 volts and frequency either 50 or 60 Hz

NOTE: Idle power is the actual power consumption of the device with no ports connected.

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.

Feature	Description
Processor	<ul style="list-style-type: none"> Dual ARM1156T2S @ 515 MHz
Memory	<ul style="list-style-type: none"> 4MB flash, 1GB flash ROM, 512MB SDRAM packet buffer size: 6MB
Performance	<p>Latency :</p> <ul style="list-style-type: none"> 1000Mb : < 2.9 μs (FIFO) 10 Gbps : < 1.3 μs (FIFO) <p>Throughput :</p> <ul style="list-style-type: none"> up to 95 million pps (64-byte packets) <p>Switching capacity :</p>

Feature	Description
	<ul style="list-style-type: none"> 128 Gbps
	Routing table size : <ul style="list-style-type: none"> 2000 entries
	MAC address table size : <ul style="list-style-type: none"> 16,000 entries
Ports	<ul style="list-style-type: none"> 20 auto-sensing 10/100/1000 ports : <ul style="list-style-type: none"> IEEE 802.3 Type 10Base-T IEEE 802.3u Type 100Base-TX IEEE 802.3ab Type 1000Base-T Media Type : <ul style="list-style-type: none"> Auto-MDIX Duplex: 10Base-T/100Base-TX: half or full 1000Base-T: full only 4 dual-personality ports : <ul style="list-style-type: none"> Each port can be used as either an RJ-45 10/100/1000 port or as a mini-GBIC slot (for use with mini-GBIC transceivers) 1 RJ-45 serial console port Supports a maximum of four 10-GbE ports, with optional module
Management	<ul style="list-style-type: none"> HPE ProCurve Manager Plus HPE ProCurve Manager Command-line interface Web browser Out-of-band management (serial RS-232C)

NOTE: When using mini-GBICs with this product, mini-GBICs with revision B or later (product number ends with the letter B or later, e.g., J4858B, J4859C) are required.

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HPE ProCurve 2910al-24G-PoE+ Switch (J9146A)

Feature	Description
Dimensions(d)*(w)*(h)	36.58 x 44.2 x 4.39 cm (14.4 x 17.4 x 1.73 in) (1U height)
Weight	5.6 kg (12.34 lb)
Mounting	Mounts in an EIA-standard 19 inch telco rack or equipment cabinet ; horizontal surface mounting only

Feature	Description
Operating temperature	<ul style="list-style-type: none"> 0°C to 55°C (32°F to 131°F)
Operating relative humidity	<ul style="list-style-type: none"> 15% to 95% @ 40°C (104°F), non-condensing
Non-operating/Storage temperature	<ul style="list-style-type: none"> -40°C to 70°C (-40°F to 158°F)
Non-operating/Storage relative humidity	<ul style="list-style-type: none"> 15% to 95% @ 65°C (149°F), non-condensing
Altitude	<ul style="list-style-type: none"> up to 3 km (10,000 ft)
Acoustic	<ul style="list-style-type: none"> Power: 51.5 dB, Pressure: 38.1 dB; DIN 45635T.19 per ISO 7779

Feature	Description
Voltage	<ul style="list-style-type: none"> 100-127/200-240 Vac
Current	<ul style="list-style-type: none"> 6.1/3.1 A
Idle power	<ul style="list-style-type: none"> 65 W
Power consumption	<ul style="list-style-type: none"> 490 W
Frequency	<ul style="list-style-type: none"> 50/60 Hz
Maximum heat dissipation	<ul style="list-style-type: none"> 472 kJ/hr (447 BTU/hr), max. using PoE+
Description	<ul style="list-style-type: none"> The switch automatically adjusts to any voltage between 100-127 and 200-240 volts and frequency either 50 or 60 Hz

NOTE: Idle power is the actual power consumption of the device with no ports connected.

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.

Feature	Description
Processor	<ul style="list-style-type: none"> Dual ARM1156T2S @ 515 MHz
Memory	<ul style="list-style-type: none"> 4MB flash ROM, 1GB flash, 512MB SDRAM packet buffer size: 6MB
Performance	<p>Latency :</p> <ul style="list-style-type: none"> 1000Mb : < 2.9 μs (FIFO) 10 Gbps : < 1.3 μs (FIFO) <p>ThroughHPEut :</p> <ul style="list-style-type: none"> up to 95 million pps (64-byte packets) <p>Switching capacity :</p> <ul style="list-style-type: none"> 128 Gbps <p>Routing table size :</p> <ul style="list-style-type: none"> 2000 entries <p>MAC address table size :</p> <ul style="list-style-type: none"> 16,000 entries
Ports	<ul style="list-style-type: none"> 20 auto-sensing 10/100/1000 ports : <ul style="list-style-type: none"> IEEE 802.3 Type 10Base-T IEEE 802.3u Type 100Base-TX IEEE 802.3ab Type 1000Base-T Media Type : <ul style="list-style-type: none"> Auto-MDIX Duplex: 10Base-T/100Base-TX: half or full 1000Base-T: full only 4 dual-personality ports : <ul style="list-style-type: none"> Each port can be used as either an RJ-45 10/100/1000 port or as a mini-GBIC slot (for use with mini-GBIC transceivers) 1 RJ-45 serial console port Supports a maximum of four 10-GbE ports, with optional module
Management	<ul style="list-style-type: none"> HPE ProCurve Manager Plus HPE ProCurve Manager Command-line interface Web browser Out-of-band management (serial RS-232C)

NOTE: When using mini-GBICs with this product, mini-GBICs with revision B or later (product number ends with the letter B or later, e.g., J4858B, J4859C) are required.

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HPE ProCurve 2910al-48G Switch (J9147A)

Feature	Description
Dimensions(d)*(w)*(h)	36.58 x 44.25 x 4.4 cm (14.4 x 17.42 x 1.73 in) (1U height)
Weight	5.08 kg (11.2 lb)
Mounting	Mounts in an EIA-standard 19 inch telco rack or equipment cabinet ; horizontal surface mounting only

Feature	Description
Operating temperature	<ul style="list-style-type: none"> 0°C to 55°C (32°F to 131°F)
Operating relative humidity	<ul style="list-style-type: none"> 15% to 95% @ 40°C (104°F), non-condensing
Non-operating/Storage temperature	<ul style="list-style-type: none"> -40°C to 70°C (-40°F to 158°F)
Non-operating/Storage relative humidity	<ul style="list-style-type: none"> 15% to 95% @ 65°C (149°F), non-condensing
Altitude	<ul style="list-style-type: none"> up to 3 km (10,000 ft)
Acoustic	<ul style="list-style-type: none"> Power: 53.5 dB, Pressure: 39.4 dB; DIN 45635T.19 per ISO 7779

Feature	Description
Voltage	<ul style="list-style-type: none"> 100-127/200-240 Vac
Current	<ul style="list-style-type: none"> 2.1/1.1 A
Idle power	<ul style="list-style-type: none"> 64 W
Power consumption	<ul style="list-style-type: none"> 105 W

Feature	Description
Frequency	<ul style="list-style-type: none"> 50/60 Hz
Maximum heat dissipation	<ul style="list-style-type: none"> 376 kJ/hr (356 BTU/hr)
Description	<ul style="list-style-type: none"> The switch automatically adjusts to any voltage between 100-127 and 200-240 volts and frequency either 50 or 60 Hz

NOTE: Idle power is the actual power consumption of the device with no ports connected.

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.

Feature	Description
Processor	<ul style="list-style-type: none"> Dual ARM1156T2S @ 515 MHz
Memory	<ul style="list-style-type: none"> 4MB flash, 1GB flash ROM, 512MB SDRAM packet buffer size: 6MB
Performance	<p>Latency :</p> <ul style="list-style-type: none"> 1000Mb : < 2.9 μs (FIFO) 10 Gbps : < 1.3 μs (FIFO) <p>Throughput :</p> <ul style="list-style-type: none"> up to 131 million pps <p>Switching capacity :</p> <ul style="list-style-type: none"> 176 Gbps <p>Routing table size :</p> <ul style="list-style-type: none"> 2000 entries <p>MAC address table size :</p> <ul style="list-style-type: none"> 16,000 entries

Ports	<ul style="list-style-type: none"> 44 auto-sensing 10/100/1000 ports : <ul style="list-style-type: none"> IEEE 802.3 Type 10Base-T IEEE 802.3u Type 100Base-TX IEEE 802.3ab Type 1000Base-T Media Type : <ul style="list-style-type: none"> Auto-MDIX Duplex: 10Base-T/100Base-TX: half or full 1000Base-T: full only 4 dual-personality ports : <ul style="list-style-type: none"> Each port can be used as either an RJ-45 10/100/1000 port or as a mini-GBIC slot (for use with mini-GBIC transceivers) 1 RJ-45 serial console port Supports a maximum of four 10-GbE ports, with optional module
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Management	<ul style="list-style-type: none"> HPE ProCurve Manager Plus HPE ProCurve Manager Command-line interface Web browser Out-of-band management (serial RS-232C)
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NOTE: When using mini-GBICs with this product, mini-GBICs with revision B or later (product number ends with the letter B or later, e.g., J4858B, J4859C) are required.

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HPE ProCurve 2910al-48G-PoE+ Switch (J9148A)

Feature	Description
Dimensions(d)*(w)*(h)	36.58 x 44.25 x 4.39 cm (14.4 x 17.42x 1.73 in) (1U height)
Weight	5.88 kg (12.96 lb)
Mounting	Mounts in an EIA-standard 19 inch telco rack or equipment cabinet ; horizontal surface mounting only

Feature	Description
Operating temperature	<ul style="list-style-type: none"> 0°C to 55°C (32°F to 131°F)
Operating relative humidity	<ul style="list-style-type: none"> 15% to 95% @ 40°C (104°F), non-condensing
Non-operating/Storage temperature	<ul style="list-style-type: none"> -40°C to 70°C (-40°F to 158°F)
Non-operating/Storage relative humidity	<ul style="list-style-type: none"> 15% to 95% @ 65°C (149°F), non-condensing

Feature	Description
Altitude	<ul style="list-style-type: none"> up to 3 km (10,000 ft)
Acoustic	<ul style="list-style-type: none"> Power: 51.5 dB, Pressure: 38.1 dB; DIN 45635T.19 per ISO 7779
Feature	Description
Voltage	<ul style="list-style-type: none"> 100-127/200-240 Vac
Current	<ul style="list-style-type: none"> 6.4/3.2 A
Idle power	<ul style="list-style-type: none"> 89 W
Power consumption	<ul style="list-style-type: none"> 556 W
Frequency	<ul style="list-style-type: none"> 50/60 Hz
Maximum heat dissipation	<ul style="list-style-type: none"> 704 kJ/hr (667 BTU/hr)
Description	<ul style="list-style-type: none"> The switch automatically adjusts to any voltage between 100-127 and 200-240 volts and frequency either 50 or 60 Hz

NOTE: Idle power is the actual power consumption of the device with no ports connected.

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.

Feature	Description
Processor	<ul style="list-style-type: none"> Dual ARM1156T2S @ 515 MHz
Memory	<ul style="list-style-type: none"> 4MB flash ROM, 1GB flash, 512MB SDRAM packet buffer size: 6MB
Performance	<p>Latency :</p> <ul style="list-style-type: none"> 1000Mb : < 2.9 μs (FIFO) 10 Gbps : < 1.3 μs (FIFO) <p>Throughput :</p> <ul style="list-style-type: none"> up to 131 million pps <p>Switching capacity :</p> <ul style="list-style-type: none"> 176 Gbps <p>Routing table size :</p> <ul style="list-style-type: none"> 2000 entries <p>MAC address table size :</p> <ul style="list-style-type: none"> 16,000 entries
Ports	<ul style="list-style-type: none"> 44 auto-sensing 10/100/1000 ports : <ul style="list-style-type: none"> IEEE 802.3 Type 10Base-T IEEE 802.3u Type 100Base-TX IEEE 802.3ab Type 1000Base-T Media Type : <ul style="list-style-type: none"> Auto-MDIX Duplex: 10Base-T/100Base-TX: half or full 1000Base-T: full only 4 dual-personality ports : <ul style="list-style-type: none"> Each port can be used as either an RJ-45 10/100/1000 port or as a mini-GBIC slot (for use with mini-GBIC transceivers) 1 RJ-45 serial console port Supports a maximum of four 10-GbE ports, with optional module
Management	<ul style="list-style-type: none"> HPE ProCurve Manager Plus HPE ProCurve Manager Command-line interface Web browser Out-of-band management (serial RS-232C)

NOTE: When using mini-GBICs with this product, mini-GBICs with revision B or later (product number ends with the letter B or later, e.g., J4858B, J4859C) are required.

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Safety and emission certificates

Feature	Description
Safety	<ul style="list-style-type: none"> EN 60950/IEC 60950 CAN/CSA 22.2 No. 60950

Feature	Description
	<ul style="list-style-type: none"> EN 60825 UL 60950
Emissions	<ul style="list-style-type: none"> FCC part 15 Class A EN 55022/CISPR-22 Class A VCCI Class A
Immunity	<p>EN :</p> <ul style="list-style-type: none"> EN 55024, CISPR 24 <p>ESD :</p> <ul style="list-style-type: none"> IEC 61000-4-2; 4 kV CD, 8 kV AD <p>Radiated :</p> <ul style="list-style-type: none"> IEC 61000-4-3; 3 V/m <p>EFT/Burst :</p> <ul style="list-style-type: none"> IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line) <p>Surge :</p> <ul style="list-style-type: none"> IEC 61000-4-5; 1 kV / 2 kV AC, 1 kV signal, 0.5 kV DC <p>Conducted :</p> <ul style="list-style-type: none"> IEC 61000-4-6; 3 V <p>Power frequency magnetic field :</p> <ul style="list-style-type: none"> IEC 61000-4-8; 1 A/m <p>Voltage dips and interruptions :</p> <ul style="list-style-type: none"> IEC 61000-4-11; > 95% reductions, 0.5 period; 30% reduction, 25 periods <p>Harmonics :</p> <ul style="list-style-type: none"> IEC 61000-3-2 <p>Flicker :</p> <ul style="list-style-type: none"> IEC 61000-3-3

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Standards and protocols

Feature	Description
Device management	<ul style="list-style-type: none"> RFC 1591 DNS (client) HTML and telnet management
General protocols	<ul style="list-style-type: none"> IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1v VLAN classification by Protocol and Port IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3x Flow Control RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 868 Time Protocol RFC 951 BOOTP RFC 1058 RIPv1 RFC 1350 TFTP Protocol (revision 2) RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 2131 DHCP RFC 2453 RIPv2 RFC 3046 DHCP Relay Agent Information Option
IP multicast	<ul style="list-style-type: none"> RFC 3376 IGMPv3 (host joins only)
IPv6	<ul style="list-style-type: none"> RFC 1981 IPv6 Path MTU Discovery RFC 2460 IPv6 Specification RFC 2710 Multicast Listener Discovery (MLD) for IPv6 RFC 2925 Remote Operations MIB (Ping only) RFC 3019 MLDv1 MIB RFC 3315 DHCPv6 (client only) RFC 3513 IPv6 Addressing Architecture RFC 3596 DNS Extension for IPv6 RFC 3810 MLDv2 (host joins only) RFC 4022 MIB for TCP

Feature	Description
	<ul style="list-style-type: none"> • RFC 4113 MIB for UDP • RFC 4251 SSHv6 Architecture • RFC 4252 SSHv6 Authentication • RFC 4253 SSHv6 Transport Layer • RFC 4254 SSHv6 Connection • RFC 4293 MIB for IP • RFC 4419 Key Exchange for SSH • RFC 4443 ICMPv6 • RFC 4541 IGMP & MLD Snooping Switch • RFC 4861 IPv6 Neighbor Discovery • RFC 4862 IPv6 Stateless Address Auto-configuration
MIBs	<ul style="list-style-type: none"> • RFC 1213 MIB II • RFC 1493 Bridge MIB • RFC 1724 RIPv2 MIB • RFC 2021 RMONv2 MIB • RFC 2613 SMON MIB • RFC 2618 RADIUS Client MIB • RFC 2620 RADIUS Accounting MIB • RFC 2665 Ethernet-Like-MIB • RFC 2668 802.3 MAU MIB • RFC 2674 802.1p and IEEE 802.1Q Bridge MIB • RFC 2737 Entity MIB (Version 2) • RFC 2863 The Interfaces Group MIB
Network management	<ul style="list-style-type: none"> • IEEE 802.1AB Link Layer Discovery Protocol (LLDP) • RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) • RFC 3176 sFlow • ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) • SNMPv1/v2c/v3 • XRMON
QoS/Cos	<ul style="list-style-type: none"> • RFC 2474 DiffServ Precedence, including 8 queues/port • RFC 2597 DiffServ Assured Forwarding (AF) • RFC 2598 DiffServ Expedited Forwarding (EF) • Ingress Rate Limiting
Security	<ul style="list-style-type: none"> • IEEE 802.1X Port Based Network Access Control • RFC 1492 TACACS+ • RFC 2138 RADIUS Authentication • RFC 2866 RADIUS Accounting • Secure Sockets Layer (SSL)

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