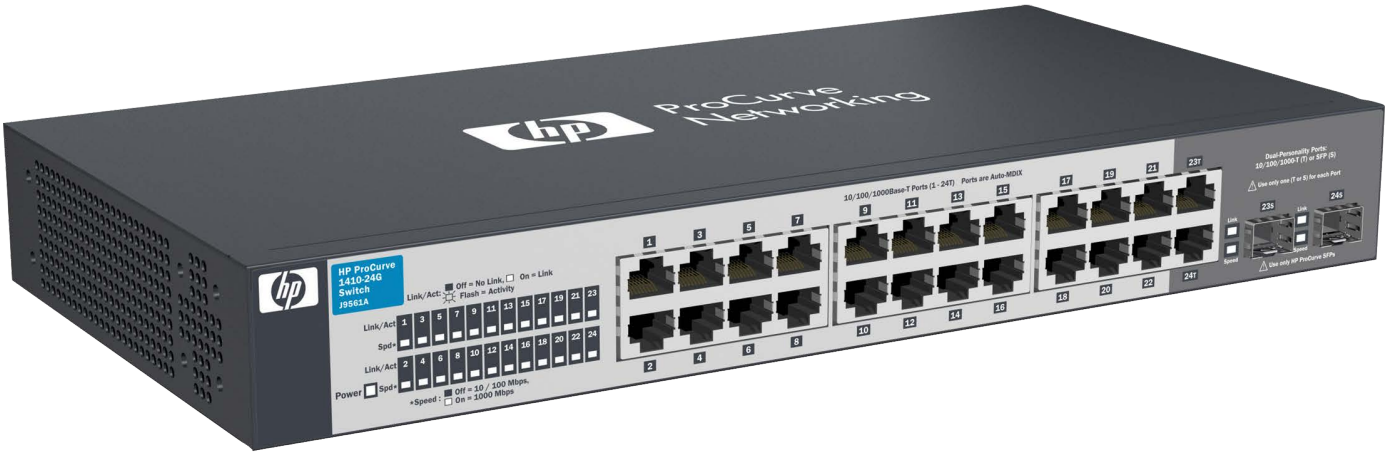
Hewlett Packard Enterprise

Data sheet

HPE 1410 Switch Series



Product overview

The HPE 1410 Switch Series comprises unmanaged Gigabit Ethernet and Fast Ethernet switches, designed for small businesses looking for entry-level low-cost networking solutions that come with a limited lifetime warranty. The series consists of nine models with flexible mounting options to meet different network switching needs. All models have quality of service (QoS) support and IEEE 802.3x flow control features that provide outstanding data efficiency.

Simplified plug-and-play convenience is enabled by features such as auto-MDIX and auto-speed negotiation. Hewlett Packard Enterprise has innovated and combined the latest advances in silicon technology to bring you some of the most power-efficient switches—1410-24G-R, 1410-16, and 1410-24 models are advanced IEEE 802.3az-compliant unmanaged Gigabit and Fast Ethernet switches. The switches come with built-in green features and a limited lifetime warranty, making the series the right choice for organizations seeking a networking solution that's both economical and reliable.

A summary of the highlights of the 1410 Switch Series:

- Unmanaged Gigabit Ethernet and Fast Ethernet switches
- Green features for low power consumption
- Fan-less design for silent operation
- QoS support
- Limited Lifetime warranty

Features and benefits

QoS

- IEEE 802.1p prioritization

  Delivers data to devices, based on the priority and type of traffic

- DiffServ Code Point (DSCP) support

  Allows real-time traffic prioritization, based on L3 TOS/DSCP parameters

Connectivity

- Auto-MDIX

  Provides automatic adjustments for straight-through or crossover cables on all 10/100 and 10/100/1000 ports

Performance

- **NEW** Energy-efficient Ethernet support

  Supports new IEEE 802.3az standard; and allows lower power consumption, when operated with IEEE-compliant client devices in 100 Mb/s mode only (JG708A, J9662A, and J9663A)

- Half-/full-duplex auto-negotiating capability on every port

  Doubles the throughput of every port

- **NEW** Jumbo frame support

  Allows frames up to 9,216 bytes to be switched through the network (Gigabit Ethernet models)

- Mini jumbo-frame support

  Allows frames up to 2,048 bytes to be switched through the network, which supports large data transfers (J9662A and J9663A)

Ease of use

- Unmanaged

  Provides plug-and-play simplicity

- Comprehensive LED display with per-port indicators

  Provides an at-a-glance view of the status, activity, speed, and full-duplex operation of the switches

- Flow control

  Helps ensure reliable communications during full-duplex operation

- Auto-speed negotiation

  Selects individual port speed automatically, depending on client capabilities; removing the need for manual intervention enables simple plug-and-play operation

Flexibility

- Fan-less design

  Enables quiet operation for deployment in open spaces

- **NEW** Internal power supply

  Delivers operational convenience and an environment suitable for business operations (JG708A, J9561A, and JD986B)

Warranty and support

- Limited Lifetime Warranty

  See **hpe.com/networking/warrantysummary** for warranty and support information included with your product purchase.

HPE 1410 Switch Series



SPECIFICATIONS	HPE 1410-8G Switch (J9559A)	HPE 1410-16G Switch (J9560A)	HPE 1410-24G-R Switch (JG708A)
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 Supports a maximum of 8 autosensing 10/100/1000 ports	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 Supports a maximum of 16 autosensing 10/100/1000 ports	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); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only Supports a maximum of 24 autosensing 10/100/1000 ports
Physical characteristics	6.14(w) x 3.8(d) x 0.96(h) in (15.6 x 9.65 x 2.45 cm)	8.21(w) x 4.41(d) x 1.73(h) in (20.85 x 11.2 x 4.4 cm) (1U height)	17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height)
Weight	0.74 lb (0.34 kg)	1.43 lb (0.65 kg)	6.61 lb (3 kg)
Memory and processor	4 Kb EEPROM capacity; packet buffer size: 192 KB	512 Kb flash; packet buffer size: 512 KB	1 MB flash; packet buffer size: 512 KB
Mounting	Wall, desktop and under-table mounting	Mounts in an EIA standard 19-inch telco rack (hardware included); wall, desktop and under-table mounting	Mounts in an EIA standard 19-inch telco rack (hardware included); desktop mounting
Performance			
100 Mb Latency	< 3.6 µs (LIFO 64-byte packets)	< 8.0 µs (LIFO 64-byte packets)	< 8.0 µs (LIFO 64-byte packets)
1000 Mb Latency	< 1.2 µs (LIFO 64-byte packets)	< 3.6 µs (LIFO 64-byte packets)	< 3.6 µs (LIFO 64-byte packets)
Throughput	up to 11.9 million pps (64-byte packets)	up to 23.8 million pps (64-byte packets)	35.7 million pps (64-byte packets)
Switching capacity	16 Gb/s	32 Gb/s	48 Gb/s
MAC address table size	4096 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 95% @ 104°F (40°C), noncondensing	15% to 95% @ 104°F (40°C), noncondensing	5% to 95% @ 104°F (40°C), 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 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing
Altitude	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)	up to 16,404 ft (5 km)
Acoustic	Power: 0 dB No fan	Power: 0 dB No fan	Power: 0 dB No fan
Electrical characteristics			
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Maximum heat dissipation	41 BTU/hr (43.26 kJ/hr)	44 BTU/hr (46.42 kJ/hr)	55 BTU/hr (58 kJ/hr)
Voltage	100-240 VAC	100-240 VAC	100-240 VAC
Current	1.0 A	1.1 A	0.3 A
Maximum power rating	12 W	13 W	16 W
	Notes 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. The exact input voltage and frequency rating are determined by the specific power adaptor part number ordered. Please select the correct power adaptor country option.	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. The exact input voltage and frequency rating are determined by the specific power adaptor part number ordered. Please select the correct power adaptor country option.	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. This model provides internal power supply. Please select the correct power cord country option.

SPECIFICATIONS (CONTINUED)	HPE 1410-8G Switch (J9559A)	HPE 1410-16G Switch (J9560A)	HPE 1410-24G-R Switch (JG708A)
Safety	CSA 22.2 No. 60950; EN 60950/ IEC 60950; UL 60950-1	CSA 22.2 No. 60950; UL 60950-1; IEC 60950-1; EN 60950-1	CSA 22.2 No. 60950; UL 60950-1; IEC 60950-1; EN 60950-1
Emissions	FCC Rules Part 15, Subpart B Class A	FCC Rules Part 15, Subpart B Class A	FCC Rules Part 15, Subpart B Class A
Immunity			
Generic	EN 55022 CISPR 22	EN 55022 CISPR 22	EN 55022 CISPR 22
EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	IEC 61000-3-2	IEC 61000-3-2	IEC 61000-3-2
Flicker	IEC 61000-3-3	IEC 61000-3-3	IEC 61000-3-3
Notes			
IEEE 802.3az Energy Efficient Ethernet protocol is supported by the HPE 1410-24G-R (JG708A), HPE 1410-16 (J9662A) and HPE 1410-24 (J9663A) Switches.			
Services	Refer to the Hewlett Packard Enterprise website at **hpe.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 Hewlett Packard Enterprise sales office.	Refer to the Hewlett Packard Enterprise website at **hpe.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 Hewlett Packard Enterprise sales office.	Refer to the Hewlett Packard Enterprise website at **hpe.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 Hewlett Packard Enterprise sales office.

HPE 1410 Switch Series



SPECIFICATIONS	HPE 1410-24G Switch (J9561A)	HPE 1410-8 Switch (J9661A)	HPE 1410-16 Switch (J9662A)
Ports	22 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 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 802.3u Type 100BASE-TX, IEEE 802.3ab 1000BASE-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers) Supports a maximum of 24 Gigabit Ethernet ports	8 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full Supports a maximum of 8 autosensing 10/100 ports	16 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full Supports a maximum of 16 autosensing 10/100 ports
Physical characteristics	13.23(w) x 6.65(d) x 1.73(h) in (33.6 x 16.9 x 4.4 cm) (1U height)	6.14(w) x 3.74(d) x 0.97(h) in (15.6 x 9.5 x 2.46 cm)	8.21(w) x 4.21(d) x 1.73(h) in (20.85 x 10.69 x 4.39 cm) (1U height)
Weight	2.98 lb (1.35 kg)	0.74 lb (0.34 kg)	1.43 lb (0.65 kg)
Memory and processor	512 Kb flash; packet buffer size: 512 KB	16 Kb EEPROM; packet buffer size: 96 KB	16Kb EEPROM; packet buffer size: 2 Mb
Mounting	Mounts in an EIA standard 19-inch telco rack (hardware included); wall, desktop and under-table mounting	Wall, desktop and under-table mounting	Mounts in an EIA standard 19-inch telco rack (hardware included) wall, desktop and under-table mounting
Performance			
100 Mb Latency	< 8.0 µs (LIFO 64-byte packets)	< 3.7 µs (LIFO 64-byte packets)	< 10.6 µs (LIFO 64-byte packets)
1000 Mb Latency	< 3.6 µs (LIFO 64-byte packets)		
Throughput	up to 35.7 million pps (64-byte packets)	up to 1.1 million pps (64-byte packets)	up to 2.3 million pps (64-byte packets)
Switching capacity	48 Gb/s	1.6 Gb/s	3.2 Gb/s
MAC address table size	8192 entries	1024 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 95% @ 104°F (40°C), noncondensing	15% to 95% @ 104°F (40°C), noncondensing	5% to 95% @ 104°F (40°C), 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 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing
Altitude	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)	up to 16,404 ft (5 km)
Acoustic	Power: 0 dB No fan	Power: 0 dB No fan	Power: 0 dB No fan

SPECIFICATIONS (CONTINUED)	HPE 1410-24G Switch (J9561A)	HPE 1410-8 Switch (J9661A)	HPE 1410-16 Switch (J9662A)
Electrical characteristics			
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Maximum heat dissipation	75 BTU/hr (79.13 kJ/hr)	13 BTU/hr (13.72 kJ/hr)	13 BTU/hr (13.72 kJ/hr)
Voltage	100-240 VAC	100-240 VAC	100-240 VAC
DC voltage		12 V	12 V
Current	0.3 A	0.3 A	0.3 A
Maximum power rating	22 W	3.6 W	3.6 W
	Notes 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. This model provides internal power supply. Please select the correct power cord country option.	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. The exact input voltage and frequency rating are determined by the specific power adaptor part number ordered. Please select the correct power adaptor country option.	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. The exact input voltage and frequency rating are determined by the specific power adaptor part number ordered. Please select the correct power adaptor country option.
Safety	CSA 22.2 No. 60950; UL 60950-1; IEC 60950-1; EN 60950-1	UL 60950-1; CSA 22.2 60950-1; IEC 60950-1:2005; EN 60950-1:2006 + A11:2009	UL 60950-1; CSA C22.2 60950-1; IEC 60950-1:2005; EN 60950-1:2006 + A11:2009
Emissions	FCC Rules Part 15, Subpart B Class A	FCC Rules Part 15, Subpart B Class A	FCC Rules Part 15, Subpart B Class A
Immunity			
Generic	EN 55022 CISPR 22	EN 55022 CISPR 22	EN 55022 CISPR 22
EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	IEC 61000-3-2	IEC 61000-3-2	IEC 61000-3-2
Flicker	IEC 61000-3-3	IEC 61000-3-3	IEC 61000-3-3

Notes

Use only supported genuine Hewlett Packard Enterprise mini-GBICs with your switch.

IEEE 802.3az Energy Efficient Ethernet protocol is supported by the HPE 1410-24G-R (JG708A), HPE 1410-16 (J9662A) and HPE 1410-24 (J9663A) Switches.

SPECIFICATIONS (CONTINUED)	HPE 1410-24G Switch (J9561A)	HPE 1410-8 Switch (J9661A)	HPE 1410-16 Switch (J9662A)
Services	Refer to the Hewlett Packard Enterprise website at **hpe.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 Hewlett Packard Enterprise sales office.	Refer to the Hewlett Packard Enterprise website at **hpe.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 Hewlett Packard Enterprise sales office.	Refer to the Hewlett Packard Enterprise website at **hpe.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 Hewlett Packard Enterprise sales office.

HPE 1410 Switch Series



SPECIFICATIONS	HPE 1410-24 Switch (J9663A)	HPE 1410-24-R Switch (JD986B)	HPE 1410-24-2G Switch (J9664A)
Ports	24 RJ-45 autosensing 10/100 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 Supports a maximum of 24 autosensing 10/100 ports	24 RJ-45 autosensing 10/100 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 Supports a maximum of 24 autosensing 10/100 ports	24 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full 2 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 Supports a maximum of 24 autosensing 10/100 ports plus 2 autosensing 10/100/1000 ports
Physical characteristics	13.23(w) x 6.65(d) x 1.73(h) in (33.6 x 16.89 x 4.39 cm) (1U height)	17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height)	13.23(w) x 6.65(d) x 1.73(h) in (33.6 x 16.89 x 4.39 cm) (1U height)
Weight	2.98 lb (1.35 kg)	4.41 lb (2.0 kg)	2.98 lb (1.35 kg)
Memory and processor	16 Kb EEPROM; packet buffer size: 2 Mb	8kb EEPROM; packet buffer size: 2 Mb	2 Kb EEPROM; packet buffer size: 2.5 Mb
Mounting	Mounts in an EIA standard 19-inch telco rack (hardware included); wall, desktop and under-table mounting	Mounts in an EIA standard 19-inch telco rack (hardware included); desktop mounting	Mounts in an EIA standard 19-inch telco rack (hardware included); wall, desktop and under-table mounting
Performance			
100 Mb Latency	< 11 µs (LIFO 64-byte packets)	< 11 µs (LIFO 64-byte packets)	< 5.6 µs (LIFO 64-byte packets)
1000 Mb Latency			< 2.2 µs (LIFO 64-byte packets)
Throughput	up to 3.5 million pps (64-byte packets)	3.5 million pps (64-byte packets)	up to 6.5 million pps (64-byte packets)
Switching capacity	4.8 Gb/s	4.8 Gb/s	8.8 Gb/s
MAC address table size	8192 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 95% @ 104°F (40°C), noncondensing	15% to 95% @ 104°F (40°C), noncondensing	5% to 95% @ 104°F (40°C), 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 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing
Altitude	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)	up to 16,404 ft (5 km)
Acoustic	Power: 0 dB No fan	Power: 0 dB No fan	Power: 0 dB No fan

SPECIFICATIONS (CONTINUED)	HPE 1410-24 Switch (J9663A)	HPE 1410-24-R Switch (JD986B)	HPE 1410-24-2G Switch (J9664A)
Electrical characteristics			
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Maximum heat dissipation	17 BTU/hr (17.93 kJ/hr)	21 BTU/hr (22 kJ/hr)	37 BTU/hr (39.03 kJ/hr)
Voltage	100-240 VAC	100-240 VAC	100-240 VAC
DC voltage	12 V	3.3 V	12 V
Current	0.4 A	1.1 A	0.9 A
Maximum power rating	4.8 W	3.6 W	10.8 W
	Notes 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. The exact input voltage and frequency rating are determined by the specific power adaptor part number ordered. Please select the correct power adaptor country option.	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. This model provides an internal power supply. Please select the correct power cord country option.	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. The exact input voltage and frequency rating are determined by the specific power adaptor part number ordered. Please select the correct power adaptor country option.
Safety	UL 60950-1; CSA 22.2 60950-1; IEC 60950-1:2005; EN 60950-1:2006 + A11:2009	UL 60950-1; CSA 22.2 60950-1; IEC 60950-1:2005; EN 60950-1:2006 + A11:2009	UL 60950-1; CSA 22.2 60950-1; IEC 60950-1:2005; EN 60950-1:2006 + A11:2009
Emissions	FCC Rules Part 15, Subpart B Class A	FCC Rules Part 15, Subpart B Class A	FCC Rules Part 15, Subpart B Class A
Immunity			
Generic	EN 55022 CISPR 22	EN 55022 CISPR 22	EN 55022 CISPR 22
EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	IEC 61000-3-2	IEC 61000-3-2	IEC 61000-3-2
Flicker	IEC 61000-3-3	IEC 61000-3-3	IEC 61000-3-3

Notes

IEEE 802.3az Energy Efficient Ethernet protocol is supported by the HPE 1410-24G-R (JG708A), HPE 1410-16 (J9662A) and HPE 1410-24 (J9663A) Switches.

SPECIFICATIONS (CONTINUED)	HPE 1410-24 Switch (J9663A)	HPE 1410-24-R Switch (JD986B)	HPE 1410-24-2G Switch (J9664A)
Services	Refer to the Hewlett Packard Enterprise website at **hpe.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 Hewlett Packard Enterprise sales office.	Refer to the Hewlett Packard Enterprise website at **hpe.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 Hewlett Packard Enterprise sales office.	Refer to the Hewlett Packard Enterprise website at **hpe.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 Hewlett Packard Enterprise sales office.
Standards and Protocols (applies to all products in series)			
General protocols	IEEE 802.1p Priority	IEEE 802.3ab 1000BASE-T Gigabit Ethernet over twisted pair (10/100/1000 models only) IEEE 802.3i 10BASE-T Ethernet over twisted pair	IEEE 802.3u 100BASE-TX Fast Ethernet, 100BASE-FX with auto negotiation IEEE 802.3x Flow Control

HPE 1410 Switch Series accessories

Cables	HPE 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A) HPE 1 m Multimode OM3 LC/LC Optical Cable (AJ834A) HPE 2 m Multimode OM3 LC/LC Optical Cable (AJ835A) HPE 5 m Multimode OM3 LC/LC Optical Cable (AJ836A) HPE 15 m Multimode OM3 LC/LC Optical Cable (AJ837A) HPE 30 m Multimode OM3 LC/LC Optical Cable (AJ838A) HPE 50 m Multimode OM3 LC/LC Optical Cable (AJ839A) HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable (QK732A) HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable (QK733A) HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable (QK734A) HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable (QK735A) HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable (QK736A) HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A)
HPE 1410-24G Switch (J9561A)	HPE X121 1G SFP LC SX Transceiver (J4858C) HPE X121 1G SFP LC LX Transceiver (J4859C) HPE X111 100M SFP LC FX Transceiver (J9054C)

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