

### Overview

## Models

HP V1410-8G Switch	J9559A
HP V1410-16G Switch	J9560A
HP V1410-24G Switch	J9561A
HP V1410-8 Switch	J9661A
HP V1410-16 Switch	J9662A
HP V1410-24 Switch	J9663A
HP V1410-24-2G Switch	J9664A

## Key features

- Unmanaged Gigabit and Fast Ethernet switches
- Green features for low power consumption
- Fanless for silent operation
- Quality-of-Service (QoS) support
- Industry-leading lifetime warranty

## Product overview

HP V1410 series switches are unmanaged Gigabit Ethernet and Fast Ethernet switches designed for small businesses looking for entry-level, low-cost networking solutions with a lifetime warranty. The HP V1410 switch series consists of seven models with flexible mounting options that allow customers to choose the best switch to meet their network switching needs. All models have QoS support and IEEE 802.3x flow control features to provide outstanding data efficiency. Simplified plug-and-play operation is enabled by features like Auto-MDIX and auto-speed negotiation. HP has innovated and combined the latest advances in silicon technology to provide some of the most power-efficient switches: 16- and 24-port Fast Ethernet models are the industry's first IEEE 802.3az compliant unmanaged Fast Ethernet switches. The available green features, along with the HP lifetime warranty, make the HP V1410 switch series ideal for customers seeking low-cost and reliable networking solutions.

## Features and benefits

### Quality of Service (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 Layer 3 TOS/DSCP parameters

### Connectivity

- **Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100 and 10/100/1000 ports

### Performance

- **NEW Energy-efficient Ethernet support (J9662A and J9663A only):** supports new IEEE 802.3az standard; allows lower power consumption when operated with IEEE-compliant client devices in 100 Mb/s mode only
- **Half-/Full-duplex auto-negotiating capability on every port:** doubles the throughput of every port
- **Jumbo frame support (Gigabit Ethernet models only):** allows frames up to 9216 bytes to be switched through the network
- **Mini jumbo frame support (J9662A and J9663A only):** allows frames up to 2048 bytes to be switched through the network, which supports large data transfers



### Overview

#### Ease of use

- **Unmanaged:** provides plug-and-play simplicity
- **Comprehensive LED display with per-port indicators:** provides an at-a-glance view of status, activity, speed, and full-duplex operation
- **Flow control:** helps ensure reliable communications during full-duplex operation
- **Auto-speed negotiation:** automatically selects individual port speed depending on client capabilities without the need for manual intervention, allowing for simple plug-and-play operation

#### Flexibility

- **Designed with no fan:** enables quiet operation for deployment in open spaces

#### Warranty and support

- **Lifetime warranty:** for as long as you own the product with advance replacement and next-business-day delivery (available in most countries)\*
- **Electronic and telephone support:** limited electronic and telephone support is available from HP; refer to: [www.hp.com/networking/warranty](http://www.hp.com/networking/warranty) for details on the support provided and the period during which support is available

\* Hardware warranty replacement for as long as you own the product, with next business day advance replacement (available in most countries) with a five-year hardware warranty replacement for the disk drive included with HP AllianceONE Services zl Module, HP Threat Management Services zl Module, HP PCM+ Agent with AllianceONE Services zl Module, and HP E-MSM765 zl Mobility Controller. For details, refer to the HP Software License, Warranty, and Support booklet at: [www.hp.com/networking/warranty](http://www.hp.com/networking/warranty).



### Technical Specifications

#### HP V1410-8G Switch (J9559A)

<b>Ports</b>	8 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	
<b>Physical characteristics</b>	<b>Dimensions</b>	3.8(d) x 6.14(w) x 0.96(h) in. (9.65 x 15.6 x 2.45 cm) (.5U height)
	<b>Weight</b>	.74 lb. (0.34 kg)
<b>Memory and processor</b>	4 Kb EEPROM capacity; packet buffer size: 192 KB	
<b>Mounting</b>	Wall, desktop, and under-table mounting	
<b>Performance</b>	<b>100 Mb Latency</b>	< 3.6 $\mu$ s (LIFO 64-byte packets)
	<b>1000 Mb Latency</b>	< 1.2 $\mu$ s (LIFO 64-byte packets)
	<b>Throughput</b>	up to 11.9 million pps (64-byte packets)
	<b>Switching capacity</b>	16 Gbps
	<b>MAC address table size</b>	4096 entries
<b>Environment</b>	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
	<b>Operating relative humidity</b>	15% to 95% @ 104°F (40°C), noncondensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	15% to 90% @ 149°F (65°C), noncondensing
	<b>Altitude</b>	up to 10,000 ft. (3 km)
<b>Acoustic</b>	Power: 0 dB No fan	
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b>	41 BTU/hr (43.26 kJ/hr)
	<b>Voltage</b>	100-240 VAC
	<b>Current</b>	1.0 A
	<b>Maximum power rating</b>	12 W
	<b>Frequency</b>	50/60 Hz
	<b>Notes</b>	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 adapter part number ordered. Please select the correct power adapter country option.
<b>Safety</b>	CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950-1	
<b>Emissions</b>	FCC Rules Part 15, Subpart B Class A	
<b>Immunity</b>	<b>Generic</b>	EN 55022 CISPR 22
	<b>EN</b>	EN 55024, CISPR 24
	<b>ESD</b>	IEC 61000-4-2
	<b>Radiated</b>	IEC 61000-4-3
	<b>EFT/Burst</b>	IEC 61000-4-4
	<b>Surge</b>	IEC 61000-4-5
<b>Conducted</b>	IEC 61000-4-6	



### Technical Specifications

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

### Services

3-year, 4-hour onsite, 13x5 coverage for hardware (UF795E)
3-year, 4-hour onsite, 24x7 coverage for hardware (UF796E)
Installation with minimum configuration, system-based pricing (U4826E)
Installation with HP-provided configuration, system-based pricing (U4830E)
4-year, 4-hour onsite, 13x5 coverage for hardware (UR816E)
4-year, 4-hour onsite, 24x7 coverage for hardware (UR817E)
5-year, 4-hour onsite, 13x5 coverage for hardware (UR818E)
5-year, 4-hour onsite, 24x7 coverage for hardware (UR819E)
3 Yr 6 hr Call-to-Repair Onsite (UW386E)
4 Yr 6 hr Call-to-Repair Onsite (UW387E)
5 Yr 6 hr Call-to-Repair Onsite (UW388E)

Refer to the HP website at: [www.hp.com/networking/services](http://www.hp.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 HP sales office.

### HP V1410-16G Switch (J9560A)

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	
Physical characteristics	Dimensions	4.41(d) x 8.21(w) x 1.73(h) in. (11.2 x 20.85 x 4.4 cm) (1U height)
	Weight	1.43 lb. (0.65 kg)
Memory and processor	512 KB flash; packet buffer size: 512 KB	
Mounting	Mounts in an EIA-standard 19 in. telco rack (hardware included); wall, desktop, and under-table mounting	
Performance	100 Mb Latency	< 8.0 $\mu$ s (LIFO 64-byte packets)
	1000 Mb Latency	< 3.6 $\mu$ s (LIFO 64-byte packets)
	Throughput	up to 23.8 million pps (64-byte packets)
	Switching capacity	32 Gbps
	MAC address table size	8000 entries
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft. (3 km)
Acoustic	Power: 0 dB No fan	



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Electrical characteristics	Maximum heat dissipation	44 BTU/hr (46.42 kJ/hr)
	Voltage	100-240 VAC
	Current	1.1 A
	Maximum power rating	13 W
	Frequency	50/60 Hz
	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 adapter part number ordered. Please select the correct power adapter country option.
Safety	CSA 22.2 No. 60950; UL 60950-1; IEC 60950-1; EN 60950-1	
Emissions	FCC Rules Part 15, Subpart B Class A	
Immunity	Generic	EN 55022 CISPR 22
	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	IEC 61000-3-2
Flicker	IEC 61000-3-3	
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UF797E)	
	3-year, 4-hour onsite, 24x7 coverage for hardware (UF798E)	
	Installation with minimum configuration, system-based pricing (U4826E)	
	Installation with HP-provided configuration, system-based pricing (U4830E)	
	4-year, 4-hour onsite, 13x5 coverage for hardware (UR820E)	
	4-year, 4-hour onsite, 24x7 coverage for hardware (UR821E)	
	5-year, 4-hour onsite, 13x5 coverage for hardware (UR822E)	
	5-year, 4-hour onsite, 24x7 coverage for hardware (UR823E)	
	3 Yr 6 hr Call-to-Repair Onsite (UW389E)	
	4 Yr 6 hr Call-to-Repair Onsite (UW390E)	
5 Yr 6 hr Call-to-Repair Onsite (UW391E)		

Refer to the HP website at: [www.hp.com/networking/services](http://www.hp.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 HP sales office.

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### HP V1410-24G Switch (J9561A)

Ports	22 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
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### Technical Specifications

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)

Physical characteristics	<b>Dimensions</b>	6.65(d) x 13.23(w) x 1.73(h) in. (16.9 x 33.6 x 4.4 cm) (1U height)
	<b>Weight</b>	2.98 lb. (1.35 kg)
Memory and processor	512 KB flash; packet buffer size: 512 KB	
Mounting	Mounts in an EIA-standard 19 in. telco rack (hardware included); wall, desktop, and under-table mounting	
Performance	<b>100 Mb Latency</b>	< 8.0 $\mu$ s (LIFO 64-byte packets)
	<b>1000 Mb Latency</b>	< 3.6 $\mu$ s (LIFO 64-byte packets)
	<b>Throughput</b>	up to 35.7 million pps (64-byte packets)
	<b>Switching capacity</b>	48 Gbps
	<b>MAC address table size</b>	8000 entries
Environment	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
	<b>Operating relative humidity</b>	15% to 95% @ 104°F (40°C), noncondensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	15% to 90% @ 149°F (65°C), noncondensing
	<b>Altitude</b>	up to 10,000 ft. (3 km)
Acoustic	Power: 0 dB No fan	
Electrical characteristics	<b>Maximum heat dissipation</b>	75 BTU/hr (79.13 kJ/hr)
	<b>Voltage</b>	100-127/200-240 VAC
	<b>Current</b>	0.3/0.2 A
	<b>Maximum power rating</b>	22 W
	<b>Frequency</b>	50/60 Hz
	<b>Notes</b>	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.
Safety	CSA 22.2 No. 60950; UL 60950-1; IEC 60950-1; EN 60950-1	
Emissions	FCC Rules Part 15, Subpart B Class A	
Immunity	<b>Generic</b>	EN 55022 CISPR 22
	<b>EN</b>	EN 55024, CISPR 24
	<b>ESD</b>	IEC 61000-4-2
	<b>Radiated</b>	IEC 61000-4-3
	<b>EFT/Burst</b>	IEC 61000-4-4
	<b>Surge</b>	IEC 61000-4-5
	<b>Conducted</b>	IEC 61000-4-6
	<b>Power frequency magnetic field</b>	IEC 61000-4-8



### Technical Specifications

Voltage dips and interruptions	IEC 61000-4-11
Harmonics	IEC 61000-3-2
Flicker	IEC 61000-3-3

Notes	Use only supported genuine HP mini-GBICs with your switch.
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UF797E)
	3-year, 4-hour onsite, 24x7 coverage for hardware (UF798E)
	Installation with minimum configuration, system-based pricing (U4826E)
	Installation with HP-provided configuration, system-based pricing (U4830E)
	4-year, 4-hour onsite, 13x5 coverage for hardware (UR820E)
	4-year, 4-hour onsite, 24x7 coverage for hardware (UR821E)
	5-year, 4-hour onsite, 13x5 coverage for hardware (UR822E)
	5-year, 4-hour onsite, 24x7 coverage for hardware (UR823E)
	3 Yr 6 hr Call-to-Repair Onsite (UW389E)
4 Yr 6 hr Call-to-Repair Onsite (UW390E)	
5 Yr 6 hr Call-to-Repair Onsite (UW391E)	

Refer to the HP website at: [www.hp.com/networking/services](http://www.hp.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 HP sales office.

### HP V1410-8 Switch (J9661A)

Ports	Supports a maximum of 8 autosensing 10/100 ports	
Physical characteristics	Dimensions	3.74(d) x 6.14(w) x 0.97(h) in. (9.5 x 15.6 x 2.46 cm)
	Weight	0.74 lb. (0.34 kg)
Memory and processor	96 KB	
Mounting	Wall, desktop, and under-table mounting	
Performance	100 Mb Latency	< 3.7 $\mu$ s (LIFO 64-byte packets)
	Throughput	up to 1.1 million pps (64-byte packets)
	Switching capacity	1.6 Gbps
	MAC address table size	1040 entries
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft. (3 km)
Acoustic	Power: 0 dB	
Electrical characteristics	Maximum heat dissipation	13 BTU/hr (13.72 kJ/hr)
	Voltage	100-240 VAC
	DC voltage	12 V
	Current	0.3 A



### Technical Specifications

Maximum power rating	3.6 W
Frequency	50/60 Hz
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 adapter part number ordered. Please select the correct power adapter country option.

**Safety** 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

<b>Immunity</b>	<b>Generic</b>	EN 55022 CISPR 22
	<b>EN</b>	EN 55024, CISPR 24
	<b>ESD</b>	IEC 61000-4-2
	<b>Radiated</b>	IEC 61000-4-3
	<b>EFT/Burst</b>	IEC 61000-4-4
	<b>Surge</b>	IEC 61000-4-5
	<b>Conducted</b>	IEC 61000-4-6
	<b>Power frequency magnetic field</b>	IEC 61000-4-8
	<b>Voltage dips and interruptions</b>	IEC 61000-4-11
	<b>Harmonics</b>	IEC 61000-3-2
<b>Flicker</b>	IEC 61000-3-3	

**Services** Refer to the HP website at: [www.hp.com/networking/services](http://www.hp.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 HP sales office.

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### HP V1410-16 Switch (J9662A)

**Ports** Supports a maximum of 16 autosensing 10/100 ports

**Physical characteristics**

<b>Dimensions</b>	4.21(d) x 8.21(w) x 1.73(h) in. (10.7 x 20.85 x 4.4 cm)
<b>Weight</b>	1.43 lb. (0.65 kg)

**Memory and processor** 16 Kb EEPROM; packet buffer size: 2 Mb

**Mounting** Mounts in an EIA-standard 19 in. telco rack (hardware included); wall, desktop, and under-table mounting

**Performance**

<b>100 Mb Latency</b>	< 10.6 $\mu$ s (LIFO 64-byte packets)
<b>Throughput</b>	up to 2.3 million pps (64-byte packets)
<b>Switching capacity</b>	3.2 Gbps
<b>MAC address table size</b>	8192 entries

**Environment**

<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
<b>Operating relative humidity</b>	15% to 95% @ 104°F (40°C), noncondensing





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	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	15% to 90% @ 149°F (65°C), noncondensing
	<b>Altitude</b>	up to 10,000 ft. (3 km)
	<b>Acoustic</b>	Power: 0 dB
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b>	13 BTU/hr (13.72 kJ/hr)
	<b>Voltage</b>	100-240 VAC
	<b>DC voltage</b>	12 V
	<b>Current</b>	0.3 A
	<b>Maximum power rating</b>	3.6 W
	<b>Frequency</b>	50/60 Hz
	<b>Notes</b>	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 adapter part number ordered. Please select the correct power adapter country option.
<b>Safety</b>		UL 60950-1; CSA C22.2 60950-1; IEC 60950-1:2005; EN 60950-1:2006 + A11:2009
<b>Emissions</b>		FCC Rules Part 15, Subpart B Class A
<b>Immunity</b>	<b>Generic</b>	EN 55022 CISPR 22
	<b>EN</b>	EN 55024, CISPR 24
	<b>ESD</b>	IEC 61000-4-2
	<b>Radiated</b>	IEC 61000-4-3
	<b>EFT/Burst</b>	IEC 61000-4-4
	<b>Surge</b>	IEC 61000-4-5
	<b>Conducted</b>	IEC 61000-4-6
	<b>Power frequency magnetic field</b>	IEC 61000-4-8
	<b>Voltage dips and interruptions</b>	IEC 61000-4-11
	<b>Harmonics</b>	IEC 61000-3-2
	<b>Flicker</b>	IEC 61000-3-3
<b>Notes</b>		IEEE 802.3az Energy Efficient Ethernet protocol is supported by the HP V1410-16 (J9662A) and HP V1410-24 (J9663A) Switches only
<b>Services</b>		Refer to the HP website at: <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> 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.

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#### HP V1410-24 Switch (J9663A)

**Ports** Supports a maximum of 24 autosensing 10/100 ports



### Technical Specifications

Physical characteristics	Dimensions	6.65(d) x 13.23(w) x 1.73(h) in. (16.9 x 33.6 x 4.4 cm)
	Weight	2.98 lb. (1.35 kg)
Memory and processor	16 Kb EEPROM; packet buffer size: 2 Mb	
Mounting	Mounts in an EIA-standard 19 in. telco rack (hardware included); wall, desktop, and under-table mounting	
Performance	100 Mb Latency	< 11 $\mu$ s (LIFO 64-byte packets)
	Throughput	up to 3.5 million pps (64-byte packets)
	Switching capacity	4.8 Gbps
	MAC address table size	8192 entries
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft. (3 km)
	Acoustic	Power: 0 dB
Electrical characteristics	Maximum heat dissipation	17 BTU/hr (17.93 kJ/hr)
	Voltage	100-240 VAC
	DC voltage	12 V
	Current	0.4 A
	Maximum power rating	4.8 W
	Frequency	50/60 Hz
	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 adapter part number ordered. Please select the correct power adapter country option.
Safety	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	
Immunity	Generic	EN 55022 CISPR 22
	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



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	<b>Harmonics</b>	IEC 61000-3-2
	<b>Flicker</b>	IEC 61000-3-3
<b>Notes</b>	IEEE 802.3az Energy Efficient Ethernet protocol is supported by the HP V1410-16 (J9662A) and HP V1410-24 (J9663A) Switches only	
<b>Services</b>	Refer to the HP website at: <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> 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.	

#### HP V1410-24-2G Switch (J9664A)

<b>Ports</b>	Supports a maximum of 24 autosensing 10/100 ports plus 2 autosensing 10/100/1000 ports, or a combination	
<b>Physical characteristics</b>	<b>Dimensions</b>	6.65(d) x 13.23(w) x 1.73(h) in. (16.9 x 33.6 x 4.4 cm)
	<b>Weight</b>	2.98 lb. (1.35 kg)
<b>Memory and processor</b>	2 KB EEPROM; packet buffer size: 2.5 Mb	
<b>Mounting</b>	Mounts in an EIA-standard 19 in. telco rack (hardware included); wall, desktop, and under-table mounting	
<b>Performance</b>	<b>100 Mb Latency</b>	< 5.6 $\mu$ s (LIFO 64-byte packets)
	<b>1000 Mb Latency</b>	< 2.2 $\mu$ s (LIFO 64-byte packets)
	<b>Throughput</b>	up to 6.5 million pps (64-byte packets)
	<b>Switching capacity</b>	8.8 Gbps
	<b>MAC address table size</b>	8192 entries
<b>Environment</b>	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
	<b>Operating relative humidity</b>	15% to 95% @ 104°F (40°C), noncondensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	15% to 90% @ 149°F (65°C), noncondensing
	<b>Altitude</b>	up to 10,000 ft. (3 km)
<b>Acoustic</b>	Power: 0 dB	
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b>	37 BTU/hr (39.03 kJ/hr)
	<b>Voltage</b>	100-240 VAC
	<b>DC voltage</b>	12 V
	<b>Current</b>	0.9 A
	<b>Maximum power rating</b>	10.8 W
	<b>Frequency</b>	50/60 Hz
	<b>Notes</b>	<p>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.</p> <p>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.</p>

**Safety** UL 60950-1; CSA 22.2 60950-1; IEC 60950-1:2005; EN 60950-1:2006 + A11:2009



## Technical Specifications

<b>Emissions</b>	FCC Rules Part 15, Subpart B Class A	
<b>Immunity</b>	<b>Generic</b>	EN 55022 CISPR 22
	<b>EN</b>	EN 55024, CISPR 24
	<b>ESD</b>	IEC 61000-4-2
	<b>Radiated</b>	IEC 61000-4-3
	<b>EFT/Burst</b>	IEC 61000-4-4
	<b>Surge</b>	IEC 61000-4-5
	<b>Conducted</b>	IEC 61000-4-6
	<b>Power frequency magnetic field</b>	IEC 61000-4-8
	<b>Voltage dips and interruptions</b>	IEC 61000-4-11
	<b>Harmonics</b>	IEC 61000-3-2
	<b>Flicker</b>	IEC 61000-3-3
<b>Services</b>	Refer to the HP website at: <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> 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.	
<b>Standards and protocols</b> (applies to all products in series)	<b>General protocols</b>	
	IEEE 802.1p Priority	
	IEEE 802.3ab 1000BASE-T	
	IEEE 802.3i 10BASE-T	
	IEEE 802.3u 100BASE-X	
	IEEE 802.3x Flow Control	
	IEEE 802.3z 1000BASE-X	



### Accessories

<b>HP V1410 Switch Series accessories</b>	<b>Cables</b>	
	HP 0.5 m Multimode OM3 LC/LC Optical Cable	AJ833A
	HP 1 m Multimode OM3 LC/LC Optical Cable	AJ834A
	HP 2 m Multimode OM3 LC/LC Optical Cable	AJ835A
	HP 5 m Multimode OM3 LC/LC Optical Cable	AJ836A
	HP 15 m Multimode OM3 LC/LC Optical Cable	AJ837A
	HP 30 m Multimode OM3 LC/LC Optical Cable	AJ838A
	HP 50 m Multimode OM3 LC/LC Optical Cable	AJ839A
	NEW HP 0.5 m PremierFlex OM3+ LC/LC Optical Cable	BK837A
	NEW HP 1 m PremierFlex OM3+ LC/LC Optical Cable	BK838A
	NEW HP 2 m PremierFlex OM3+ LC/LC Optical Cable	BK839A
	NEW HP 5 m PremierFlex OM3+ LC/LC Optical Cable	BK840A
	NEW HP 15 m PremierFlex OM3+ LC/LC Optical Cable	BK841A
	NEW HP 30 m PremierFlex OM3+ LC/LC Optical Cable	BK842A
	NEW HP 50 m PremierFlex OM3+ LC/LC Optical Cable	BK843A
	<b>HP V1410-24G Switch (J9561A)</b>	
	HP X121 1G SFP LC SX Transceiver	J4858C
HP X121 1G SFP LC LX Transceiver	J4859C	
HP X111 100M SFP LC FX Transceiver	J9054C	

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