HP 1410 Switch series

Overview

HP 1410 Switch series

Models

HP 1410-24-2G Switch	J9664A
HP 1410-24-R Switch	JD986B
HP 1410-24 Switch	J9663A
HP 1410-16 Switch	J9662A
HP 1410-8 Switch	J9661A
HP 1410-24G Switch	J9561A
HP 1410-24G-R Switch	JG708A
HP 1410-16G Switch	J9560A
HP 1410-8G Switch	J9559A

Key features

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

Product overview

The HP 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 autospeed negotiation. HP 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.

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

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; allows lower power consumption when operated with IEEE-compliant client devices in



Overview

100 Mb/s mode only (JG708A, J9662A and J9663A switches)

- Half-/full-duplex auto-negotiating capability on every port doubles the throughput of every port
- NEW Jumbo frame support
 allows frames up to 9216 bytes to be switched through the network (Gigabit Ethernet models)
- Mini jumbo frame support allows frames up to 2048 bytes to be switched through the network, which supports large data transfers (J9662A and J9663A switches)

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 selects individual port speed automatically depending on client capabilities without the need for manual intervention, allowing for simple plug-and-play operation

Flexibility

- Fanless design enables quiet operation for deployment in open spaces
- **NEW Internal power supply** provides operation convenience and a neat operation environment (JG708A, J9561A and JD986B switches)

Warranty and support

 Limited Lifetime Warranty v2.0 Advance hardware replacement with next-business-day delivery (available in most countries). See www.hp.com/networking/warrantysummary for duration details

 Electronic and telephone support (for Limited Lifetime Warranty 2.0 limited 24x7 telephone support is available from HP for the first 3 years; limited electronic and business hours telephone support is available from HP for the entire warranty period; to reach our support centers, refer to www.hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to www.hp.com/networking/warrantysummary



Configuration

Build To Order: BTO is a standalone unit with no integration. BTO products ship standalone are not part of a CTO or Rack-Shippable solution.

HP 1410-8G Switch	J9559A
8 autosensing 10/100/1000 ports	See Configuration
	Note:2
HP 1410-16G Switch	J9560A
• 16 autosensing 10/100/1000 ports	See Configuration
• 1U - Height	Note:2
HP 1410-24G-R Switch	JG708A
• 24 autosensing 10/100/1000 ports	See Configuration
• 1U - Height	Note:2
	J9561A
HP 1410-24G Switch	See Configuration
 22 autosensing 10/100/1000 ports 2 dual-personality ports; either an RJ-45 10/100/1000 port or an open mini-GBIC slot 	Note:1, 3
 10 - Height 	Note:1, 5
i o neight	
PDU Cable NA/MX/TW/JP	J9561A #B2B
C15 PDU Jumper Cord (NA/MX/TW/JP)	
PDU Cable ROW	J9561A #B2C
C15 PDU Jumper Cord (ROW)	
67	
HP 1410-8 Switch	J9661A
8 autosensing 10/100 ports	See Configuration
	Note:2
	105524
HP 1410-16 Switch	J9662A
 16 autosensing 10/100 ports 10 - Height 	See Configuration Note:2
• 10 - Height	Note.2
HP 1410-24 Switch	J9663A
• 24 autosensing 10/100 ports	See Configuration
• 1U - Height	Note:2
-	
HP 1410-24-R Switch	JD986B
• 24 autosensing 10/100 ports	See Configuration
	Note:2



Configuration

• 1U - Height

HP 1410-24-2G Switch • 24 autosensing 1 • 2 autosensing 10 • 1U - Height		J9664A See Configuration Note:2
Configuration Rules:	69. K	
Note 1	The following Transceivers install into this switch: HP X121 1G SFP LC SX Transceiver HP X121 1G SFP LC LX Transceiver HP X111 100M SFP LC FX Transceiver	J4858C J4859C J9054C
Note 2	Localization required. (See Localization Menu for list.)	
Note 3	Localization (Wall Power Cord) required on orders without #B2B or #B2C (PDU Pow Localization Menu)	ver Cord). (See

Internal or External Power Supplies(Model Dependant)

Power supplies included

Enter the following menu selections as integrated to the CTO Model X server above if order is factory built.

Transceivers

SFP Transceivers

HP X121 1G SFP LC SX Transceiver	J4858C
HP X121 1G SFP LC LX Transceiver	J4859C
HP X111 100M SFP LC FX Transceiver	J9054C

Cables

Multi-Mode Cables

HP LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A

Configuration

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable

QK734A
QK735A
QK736A
QK737A

1.051-891-2000 eli-

HP 1410-8G Switch (J9559A)				
I/O ports and slots	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		
Physical characteristics	Dimensions	6.14(w) x 3.8(d) x 0.96(h) in (15.6 x 9.65 x 2.45 cm)		
	Weight	0.74 lb (0.34 kg)		
Memory and processor	4 Kb EEPROM capacity; pa	cket buffer size: 192 KB		
Mounting and enclosure	Wall, desktop, and under-	table mounting		
Performance	100 Mb Latency	< 3.6 µs (LIFO 64-byte packets)		
	1000 Mb Latency	< 1.2 µs (LIFO 64-byte packets)		
	Throughput	up to 11.9 Mpps (64-byte packets)		
	Switching capacity	16 Gbps		
	MAC address table size	4096 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		
Electrical characteristics	Frequency	50/60 Hz		
	Maximum heat dissipation	41 BTU/hr (43.26 kJ/hr)		
	Voltage	100 - 240 VAC		
	Current	1.0 A		
	Maximum power rating	12 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.		
Safety	CSA 22.2 No. 60950; EN 6	0950/IEC 60950; UL 60950-1		
Emissions	FCC Rules Part 15, Subpar	t 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		

Technical Specifications

	Conducted	IEC 61000-4-6
	Power frequency	IEC 61000-4-8
	magnetic field	
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC 61000-3-2
	Flicker	IEC 61000-3-3
Services		t: www.hp.com/networking/services for details on the service-level numbers. For details about services and response times in your area, please as office.
HP 1410-16G Switch (J956	50A)	.0.7
I/O ports and slots	16 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-T) 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 1	6 autosensing 10/100/1000 ports
Physical characteristics	Dimensions	8.21(w) x 4.41(d) x 1.73(h) in (20.85 x 11.2 x 4.4 cm) (1U height)
•	Weight	1.43 lb (0.65 kg)
Memory and processor	512 Kb flash; packet buffe	
Mounting and enclosure		l 19-inch telco rack (hardware included); wall, desktop and under-table
Performance	100 Mb Latency	< 8.0 µs (LIFO 64-byte packets)
	1000 Mb Latency	< 3.6 µs (LIFO 64-byte packets)
	Throughput	up to 23.8 Mpps (64-byte packets)
	Switching capacity	32 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)
×,0	Acoustic	Power: 0 dB No fan
Electrical characteristics	Frequency	50/60 Hz
	Maximum heat dissipation	44 BTU/hr (46.42 kJ/hr)
	Voltage	100 - 240 VAC
	Current	1.1 A
	Maximum power rating	13 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



		nower adapter country ention	
Safety	(54 22 2 No 60050.11 60	power adaptor country option. 0950-1: IEC 60950-1: EN 60950-1	
Emissions	CSA 22.2 No. 60950; UL 60950-1; IEC 60950-1; EN 60950-1 FCC Rules Part 15, Subpart B Class A		
Immunity	Generic	EN 55022 CISPR 22	
minumity	EN		
	ESD	EN 55024, CISPR 24	
	CSD Radiated	IEC 61000-4-2	
	EFT/Burst	IEC 61000-4-3	
	-	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		t: www.hp.com/networking/services for details on the service-level numbers. For details about services and response times in your area, please s office.	
HP 1410-24G-R Switch (JG	-	/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX	
	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only	(100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 4 autosensing 10/100/1000 ports	
I/O ports and slots	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full;	
/O ports and slots	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 4 autosensing 10/100/1000 ports	
/O ports and slots Physical characteristics	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2 Dimensions	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 4 autosensing 10/100/1000 ports 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) 6.61 lb (3 kg)	
HP 1410-24G-R Switch (JG I/O ports and slots Physical characteristics Memory and processor Mounting and enclosure	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2 Dimensions Weight 1 MB flash; packet buffer	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 4 autosensing 10/100/1000 ports 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) 6.61 lb (3 kg)	
I/O ports and slots Physical characteristics Memory and processor Mounting and enclosure	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2 Dimensions Weight 1 MB flash; packet buffer	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 4 autosensing 10/100/1000 ports 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) 6.61 lb (3 kg) size: 512 KB	
/O ports and slots Physical characteristics Memory and processor Mounting and enclosure	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2 Dimensions Weight 1 MB flash; packet buffer Mounts in an EIA standard	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 24 autosensing 10/100/1000 ports 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) 6.61 lb (3 kg) size: 512 KB 19-inch telco rack (hardware included); desktop mounting	
I/O ports and slots Physical characteristics Memory and processor Mounting and enclosure	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2 Dimensions Weight 1 MB flash; packet buffer Mounts in an EIA standard 100 Mb Latency 1000 Mb Latency	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 24 autosensing 10/100/1000 ports 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) 6.61 lb (3 kg) size: 512 KB 19-inch telco rack (hardware included); desktop mounting < 8.0 µs (LIFO 64-byte packets) < 3.6 µs (LIFO 64-byte packets)	
/O ports and slots Physical characteristics Memory and processor Mounting and enclosure	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2 Dimensions Weight 1 MB flash; packet buffer Mounts in an EIA standard 100 Mb Latency 1000 Mb Latency Throughput	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 24 autosensing 10/100/1000 ports 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) 6.61 lb (3 kg) size: 512 KB 119-inch telco rack (hardware included); desktop mounting < 8.0 µs (LIFO 64-byte packets) < 3.6 µs (LIFO 64-byte packets) up to 35.7 Mpps (64-byte packets)	
/O ports and slots Physical characteristics Memory and processor Mounting and enclosure	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2 Dimensions Weight 1 MB flash; packet buffer Mounts in an EIA standard 100 Mb Latency 1000 Mb Latency	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 4 autosensing 10/100/1000 ports 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) 6.61 lb (3 kg) size: 512 KB 19-inch telco rack (hardware included); desktop mounting < 8.0 µs (LIFO 64-byte packets) < 3.6 µs (LIFO 64-byte packets) up to 35.7 Mpps (64-byte packets) 48 Gbps	
I/O ports and slots Physical characteristics Memory and processor Mounting and enclosure Performance	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2 Dimensions Weight 1 MB flash; packet buffer Mounts in an EIA standard 100 Mb Latency 1000 Mb Latency Throughput Switching capacity MAC address table size	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 4 autosensing 10/100/1000 ports 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) 6.61 lb (3 kg) size: 512 KB 19-inch telco rack (hardware included); desktop mounting < 8.0 µs (LIFO 64-byte packets) < 3.6 µs (LIFO 64-byte packets) up to 35.7 Mpps (64-byte packets) 48 Gbps 8192 entries	
I/O ports and slots Physical characteristics Memory and processor Mounting and enclosure Performance	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2 Dimensions Weight 1 MB flash; packet buffer Mounts in an EIA standard 100 Mb Latency 1000 Mb Latency Throughput Switching capacity MAC address table size Operating temperature Operating relative	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 4 autosensing 10/100/1000 ports 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) 6.61 lb (3 kg) size: 512 KB 19-inch telco rack (hardware included); desktop mounting < 8.0 µs (LIFO 64-byte packets) < 3.6 µs (LIFO 64-byte packets) up to 35.7 Mpps (64-byte packets) 48 Gbps	
/O ports and slots Physical characteristics Memory and processor Mounting and enclosure Performance	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2 Dimensions Weight 1 MB flash; packet buffer Mounts in an EIA standard 100 Mb Latency 1000 Mb Latency Throughput Switching capacity MAC address table size Operating temperature Operating relative humidity Nonoperating/Storage	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 4 autosensing 10/100/1000 ports 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) 6.61 lb (3 kg) size: 512 KB 19-inch telco rack (hardware included); desktop mounting < 8.0 µs (LIFO 64-byte packets) < 3.6 µs (LIFO 64-byte packets) up to 35.7 Mpps (64-byte packets) 48 Gbps 8192 entries 32°F to 104°F (0°C to 40°C)	
/O ports and slots Physical characteristics Memory and processor Mounting and enclosure Performance	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2 Dimensions Weight 1 MB flash; packet buffer Mounts in an EIA standard 100 Mb Latency 1000 Mb Latency Throughput Switching capacity MAC address table size Operating temperature Operating relative humidity	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 4 autosensing 10/100/1000 ports 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) 6.61 lb (3 kg) size: 512 KB 19-inch telco rack (hardware included); desktop mounting < 8.0 µs (LIFO 64-byte packets) < 3.6 µs (LIFO 64-byte packets) up to 35.7 Mpps (64-byte packets) 48 Gbps 8192 entries 32°F to 104°F (0°C to 40°C) 5% to 95% @ 104°F (40°C), noncondensing	
/O ports and slots Physical characteristics Memory and processor Mounting and enclosure Performance	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2 Dimensions Weight 1 MB flash; packet buffer Mounts in an EIA standard 100 Mb Latency 1000 Mb Latency Throughput Switching capacity MAC address table size Operating temperature Operating relative humidity Nonoperating/Storage temperature Nonoperating/Storage	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 44 autosensing 10/100/1000 ports 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) 6.61 lb (3 kg) size: 512 KB 19-inch telco rack (hardware included); desktop mounting < 8.0 µs (LIFO 64-byte packets) < 3.6 µs (LIFO 64-byte packets) up to 35.7 Mpps (64-byte packets) 48 Gbps 8192 entries 32°F to 104°F (0°C to 40°C) 5% to 95% @ 104°F (40°C), noncondensing -40°F to 158°F (-40°C to 70°C) 5% to 90% @ 149°F (65°C), noncondensing	
/O ports and slots Physical characteristics Memory and processor Mounting and enclosure Performance	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2 Dimensions Weight 1 MB flash; packet buffer Mounts in an EIA standard 100 Mb Latency 1000 Mb Latency Throughput Switching capacity MAC address table size Operating temperature Operating relative humidity Nonoperating/Storage relative humidity	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 4 autosensing 10/100/1000 ports 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) 6.61 lb (3 kg) size: 512 KB 19-inch telco rack (hardware included); desktop mounting < 8.0 µs (LIFO 64-byte packets) < 3.6 µs (LIFO 64-byte packets) up to 35.7 Mpps (64-byte packets) 48 Gbps 8192 entries 32°F to 104°F (0°C to 40°C) 5% to 95% @ 104°F (40°C), noncondensing -40°F to 158°F (-40°C to 70°C)	
I/O ports and slots Physical characteristics Memory and processor	24 RJ-45 autosensing 10/ IEEE 802.3ab Type 1000B 1000BASE-T: full only Supports a maximum of 2 Dimensions Weight 1 MB flash; packet buffer Mounts in an EIA standard 100 Mb Latency 1000 Mb Latency Throughput Switching capacity MAC address table size Operating temperature Operating relative humidity Nonoperating/Storage relative humidity Altitude Acoustic	ASE-T) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 44 autosensing 10/100/1000 ports 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) 6.61 lb (3 kg) size: 512 KB 19-inch telco rack (hardware included); desktop mounting < 8.0 µs (LIFO 64-byte packets) < 3.6 µs (LIFO 64-byte packets) < 3.6 µs (LIFO 64-byte packets) up to 35.7 Mpps (64-byte packets) 48 Gbps 8192 entries 32°F to 104°F (0°C to 40°C) 5% to 95% @ 104°F (40°C), noncondensing -40°F to 158°F (-40°C to 70°C) 5% to 90% @ 149°F (65°C), noncondensing up to 16,404 ft (5 km)	



	Voltage	100 - 240 VAC
	Current	0.3 A
	Maximum power rating	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.
		This model provides internal power supply. Please select the correct power cord country option.
Safety	CSA 22.2 No. 60950; UL 6	i0950-1; IEC 60950-1; EN 60950-1
Emissions	FCC Rules Part 15, Subpa	rt B Class A c 🔿 🗡
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
Notes		cient Ethernet protocol is supported by the HP 1410-24G-R (JG708A), HP P 1410-24 (J9663A) Switches.
Services	Refer to the HP website at: 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 1410-24G Switch (J95	61A)	
I/O ports and slots	22 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 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	
4		
Physical characteristics	Dimensions	13.23(w) x 6.65(d) x 1.73(h) in (33.6 x 16.9 x 4.4 cm) (1U height)
	Weight	2.98 lb (1.35 kg)
Memory and processor	512 Kb flash; packet buff	er size: 512 KB
Mounting and enclosure	Mounts in an EIA standard mounting	d 19-inch telco rack (hardware included); wall, desktop and under-table
Performance	100 Mb Latency	< 8.0 µs (LIFO 64-byte packets)
	1000 Mb Latency	< 3.6 µs (LIFO 64-byte packets)
	Throughput	up to 35.7 Kpps (64-byte packets)
	Switching capacity	48 Gbps



	MAC address table sine	9107 entries
Environment	MAC address table size Operating temperature	8192 entries 32°F to 104°F (0°C to 40°C)
Environment		
	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
Electrical characteristics	Frequency	50/60 Hz
	Maximum heat dissipation	75 BTU/hr (79.13 kJ/hr)
	AC Voltage	100 - 127 / 200 - 240 VAC
	Current	0.3/0.2 A
	Maximum power rating	22 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.
Safety	CSA 22.2 No. 60950; UL 6	50950-1; IEC 60950-1; EN 60950-1
Emissions	FCC Rules Part 15, Subpa	art 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
\rightarrow	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC 61000-3-2
× × <	Flicker	IEC 61000-3-3
Notes	Use only supported genu	ine HP mini-GBICs with your switch.
Services	Refer to the HP website at: 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, pleas contact your local HP sales office.	
HP 1410-8 Switch (J9661/	A)	
I/O ports and slots	8 RJ-45 autosensing 10/ half or full	100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX) Duplex:
	Supports a maximum of	8 autosensing 10/100 ports
Physical characteristics	Dimensions	6.14(w) x 3.74(d) x 0.97(h) in (15.6 x 9.5 x 2.46 cm)
	Weight	0.74 lb (0.34 kg)
(p)	c04164469 — DA – 13	674 Worldwide — Version 13 — December 1, 2014 Page

Memory and processor	16 Kb EEPROM; packet bu	ffer size: 96 KB
Mounting and enclosure	Wall, desktop and under-	table mounting
Performance	100 Mb Latency	< 3.7µs (LIFO 64-byte packets)
	Throughput	up to 1.1 Mpps (64-byte packets)
	Switching capacity	1.6 Gbps
	MAC address table size	1024 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
Electrical characteristics	Frequency	50/60 Hz
	Maximum heat dissipation	13 BTU/hr (13.72 kJ/hr)
	AC Voltage	100 - 240 VAC
	Current	0.3 A
	Maximum power rating	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.
		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 22.2 609	950-1; IEC 60950-1:2005; EN 60950-1:2006 + A11:2009
Emissions	FCC Rules Part 15, Subpar	t B Class A
Immunity	Generic	EN 55022 CISPR 22
	EN O	EN 55024, CISPR 24
X	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
× X Q	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		t: www.hp.com/networking/services for details on the service-level numbers. For details about services and response times in your area, please so office.



Technical Specifications

HP 1410-16 Switch (J9662	?A)	
Ports	16 RJ-45 autosensing 10/ Duplex: half or full	100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)
	Supports a maximum of 1	6 autosensing 10/100 ports
Physical characteristics	Dimensions	8.21(w) x 4.21(d) x 1.73(h) in (20.85 x 10.69 x 4.39 cm) (1U height)
	Weight	1.43 lb (0.65 kg)
Memory and processor	16 Kb EEPROM; packet bu	ffer size: 2 Mb
Mounting and enclosure	Mounts in an EIA standard mounting	19-inch telco rack (hardware included); wall, desktop and under-table
Performance	100 Mb Latency	< 10.6 µs (LIFO 64-byte packets)
	Throughput	up to 2.3 Mpps (64-byte packets)
	Switching capacity	3.2 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 No fan
Electrical characteristics	Frequency	50/60 Hz
	Maximum heat dissipation	13 BTU/hr (13.72 kJ/hr)
	AC Voltage	100 - 240 VAC
	Current	0.3 A
	Maximum power rating	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
4		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 C22.2 60)950-1; 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
	Harmonics	IEC 61000-3-2
	Flicker	IEC 61000-3-3
Notes		ient Ethernet protocol is supported by the HP 1410-24G-R (JG708A), HP 1410-24 (J9663A) Switches.
Services	Refer to the HP website at: 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 1410-24 Switch (J9663	A)	
I/O ports and slots		
170 poi (\$ and \$tot\$	Duplex: half or full	100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)
	Supports a maximum of 2	4 autosensing 10/100 ports
Physical characteristics	Dimensions	13.23(w) x 6.65(d) x 1.73(h) in (33.6 x 16.89 x 4.39 cm) (1U height)
r nysical characteristics	Weight	2.98 lb (1.35 kg)
Memory and processor	16 Kb EEPROM; packet but	
Mounting and enclosure	· •	19-inch telco rack (hardware included); wall, desktop and under-table
-	mounting	
Performance	100 Mb Latency	< 11 µs (LIFO 64-byte packets)
	Throughput	up to 3.5 Mpps (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)
X	Acoustic	Power: 0 dB No fan
Electrical characteristics		50/60 Hz
	Maximum heat dissipation	17 BTU/hr (17.93 kJ/hr)
	AC Voltage	100 - 240 VAC
	Current	0.4 A
	Maximum power rating	4.8 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.
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
	Harmonics	IEC 61000-3-2
	Flicker	IEC 61000-3-3
Notes		ent Ethernet protocol is supported by the HP 1410-24G-R (JG708A), HP 1410-24 (J9663A) Switches.
Services	Refer to the HP website at: 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 1410-24-R Switch (JD9	86B)	
I/O ports and slots	24 RJ-45 autosensing 10/ Duplex: half or full	100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX)
	Supports a maximum of 2	4 autosensing 10/100 ports
Physical characteristics	Dimensions	17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm)
•	Weight	4.41 lb (2.0 kg)
Memory and processor	8kb EEPROM; packet buffer size: 2 Mb	
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack (hardware included); desktop mounting	
Performance	100 Mb Latency	< 11 µs (LIFO 64-byte packets)
	Throughput	up to 3.5 Mpps (64-byte packets)
X	Switching capacity	4.8 Gbps
4.0	MAC address table size	8192 entries
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
\rightarrow	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	5% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 16,404 ft (5 km)
	Acoustic	Power: 0 dB No fan
Electrical characteristics	Frequency	50/60 Hz



	AC Voltage	100 - 240 VAC
	Current	1.1 A
	Maximum power rating	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 an internal power supply. Please select the correct power cord country option.
Safety	UL 60950-1; CSA 22.2 609	50-1; IEC 60950-1:2005; EN 60950-1:2006 + A11:2009
Emissions	FCC Rules Part 15, Subpar	t 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	IEC 61000-4-8
	magnetic field Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC 61000-3-2
	Flicker	IEC 61000-3-3
Services	Refer to the HP website at	: www.hp.com/networking/services for details on the service-level numbers. For details about services and response times in your area, please
HP 1410-24-2G Switch (J	9664A)	
I/O ports and slots	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,	
		ASE-T) Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 autosensing 10/100 ports plus 2 autosensing 10/100/1000 ports
Physical characteristics	Dimensions	13.23(w) x 6.65(d) x 1.73(h) in (33.6 x 16.89 x 4.39 cm) (10 height)
r nysicat characteristics	Weight	2.98 lb (1.35 kg)
Memory and processor	2 Kb EEPROM; packet buff	-
Mounting and enclosure		19-inch telco rack (hardware included); wall, desktop and under-table
-	mounts in an EIA standard 19-inch telco rack (hardware included); wall, desktop and under-table mounting	
Performance	100 Mb Latency	< 5.6 µs (LIFO 64-byte packets)
	1000 Mb Latency	< 2.2 µs (LIFO 64-byte packets)
	Throughput	up to 6.5 Mpps (64-byte packets)
	Switching capacity	8.8 Gbps
	MAC address table size	8192 entries
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
	Operating relative	15% to 95% @ 104°F (40°C), noncondensing



HP 1410 Switch series

	humidity	
	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
Electrical characteristics	Frequency	50/60 Hz
	Maximum heat dissipation	37 BTU/hr (39.03 kJ/hr)
	AC Voltage	100 - 240 VAC
	Current	0.9 A
	Maximum power rating	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.
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
X	Voltage dips and interruptions	IEC 61000-4-11
× 2 Q	Harmonics	IEC 61000-3-2
	Flicker	IEC 61000-3-3
Services		: www.hp.com/networking/services for details on the service-level numbers. For details about services and response times in your area, please s office.
Standards and protocols (applies to all products in series)	IEEE 802.3i 10BASE-T Ethe	Gigabit Ethernet over twisted pair (10/100/1000 models only) ernet over twisted pair Fast Ethernet, 100BASE-FX with autonegotiation



Accessories

HP 1410 Switch series accessories

Cables

HP LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable AJ833A HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable AJ834A HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable AJ835A HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ837A HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable QK732A HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable QK733A HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable QK734A HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable QK735A HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable QK736A HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable QK737A HP 1410-24G Switch (J9561A)

HP X111 100M SFP LC FX Transceiver

351-891-2

J9054C



Accessory Product Details

NOTE: Details are not available for all a	accessories. The following specifications	were available at the time of publication.

HP 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A)	Cabling	Cable type : 50/125 μm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m
	Notes	Maximum distance: 10Gbps Transfer Rate (Ethernet): 300m Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um
	Services	 fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end. Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um Optical glass: Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical glass: Bandwidth: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber and designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg
	<u>}/</u>	
HP 1 m Multimode OM3 LC/LC Optical Cable (AJ834A)	Cabling	Cable type : 50/125 µm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m
	Notes	Maximum distance : 10Gbps Transfer Rate (Ethernet): 300m Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.
		 Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um



Accessory Product Details

		 Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg
	Services	Refer to the HP website at 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 2 m Multimode OM3 LC/LC Optical Cable (AJ835A)	Cabling	Cable type : 50/125 µm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;
		Maximum distance:
		10Gbps Transfer Rate (Ethernet): 300m
	Notes	Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.
		 Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @



Accessory Product I	Details	
		 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg
	Services	Refer to the HP website at 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 5 m Multimode OM3 LC/LC Optical Cable (AJ836A)	Cabling	Cable type : 50/125 µm core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;
		Maximum distance : 10Gbps Transfer Rate (Ethernet): 300m
	Notes	Cable Specs: This specification defines the detail requirements for a tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.
	3	 Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg
	Services	Refer to the HP website at 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 15 m Multimode OM3 LC/LC Optical Cable (AJ837A)	Cabling	Cable type : 50/125 μm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;
		Maximum distance : 10Gbps Transfer Rate (Ethernet): 300m



Accessory Product Details

	Notes	Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.
		 Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598
		 Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg
	Services	Refer to the HP website at 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 30 m Multimode OM3 LC/LC Optical Cable (AJ838A)	Cabling	Cable type : 50/125 μm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;
		Maximum distance:
		10Gbps Transfer Rate (Ethernet): 300m
-	Notes	Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.
		 Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen



Accessory Product Details

		 thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg
	Services	Refer to the HP website at 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 50 m Multimode OM3 LC/LC Optical Cable (AJ839A)	Cabling	Cable type : 50/125 µm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m; Maximum distance :
	Notes	10Gbps Transfer Rate (Ethernet): 300m Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.
	21:051-091	 Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg
	Services	Refer to the HP website at 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 Premier Flex LC/LC Multi-mode OM4 2 fiber	Notes	Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors



Accessory Product [Details	
1m Cable (QK732A)		on each end.
		 Core Diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um Bandwidth: 3000 MHz-km @ 850nm (Laser) Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic Boot Color: White Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45
	Services	Refer to the HP website at 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 Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable (QK733A)	Notes	Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.
	051-891	 Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um Bandwidth: 3000 MHz-km @ 850nm (Laser) Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic Boot Color: White Outer Jacket Print: HP PremierFlex 0M3+ Fiber Optic Cable, 50/125um, Type 0FNR (UL), LSZH, cUL, 0FN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45
-	Services	Refer to the HP website at 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 Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable (QK734A)	Notes	Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.
		 Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um Bandwidth: 3000 MHz-km @ 850nm (Laser) Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic



Accessory Product	Details	
		 Boot Color: White Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45
	Services	Refer to the HP website at 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 Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable (QK735A)	Notes	Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.
	Services	 Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um Bandwidth: 3000 MHz-km @ 850nm (Laser) Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic Boot Color: White Outer Jacket Print: HP PremierFlex 0M3+ Fiber Optic Cable, 50/125um, Type 0FNR (UL), LSZH, cUL, 0FN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45 Refer to the HP website at 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
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable (QK736A)	Notes	sales office. Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.
	2	 Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um Bandwidth: 3000 MHz-km @ 850nm (Laser) Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic Boot Color: White Outer Jacket Print: HP PremierFlex 0M3+ Fiber Optic Cable, 50/125um, Type 0FNR (UL), LSZH, cUL, 0FN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45



HP 1410 Switch series

Accessory Product Details

	Services	Refer to the HP website at 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 Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A)	Notes	Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.		
		 Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um Bandwidth: 3000 MHz-km @ 850nm (Laser) Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic Boot Color: White Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45 		
	Services	Refer to the HP website at 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 X121 1G SFP LC SX	Ports	1 LC 1000BASE-SX port; Duplex: full only		
Transceiver (J4858C)	Physical characteristics	Dimensions: 2.24(d) x 0.54(w) x 0.48(h) in. (5.69 x 1.37 x 1.22 cm) Weight: 0.04 lb. (0.02 kg)		
A small form-factor	Environment	Transceiver form factor: SFP		
pluggable (SFP) Gigabit SX transceiver that provides a		Operating temperature: 32°F to 158°F (0°C to 70°C) Operating relative humidity: 5% to 85%, noncondensing		
full-duplex Gigabit	67	Nonoperating/Storage temperature: -40°F to 203°F (-40°C to 85°C) Altitude: up to 10,000 ft. (3 km)		
solution				
up to 550 m on multimode	Electrical characteristics	Power consumption typical: 0.4 W		
fiber.	07	Power consumption maximum: 0.7 W		
	Cabling	Туре:		
4,0				
		 62.5/125 μm or 50/125 μm (core/cladding) diameter, graded- index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively; 		
		Maximum distance:		
		 2-220 m (62.5 μm core diameter, 160 MHz*km bandwidth 2-275 m (62.5 μm core diameter, 200 MHz*km bandwidth 2-500 m (50 μm core diameter, 400 MHz*km bandwidth) 		

• 2-550 m (50 µm core diameter, 500 MHz*km bandwidth)

Cable length: 2-550m Fiber type: Multi Mode



Accessory Product Details

	Services	the service-level descript	t www.hp.com/networking/services for details on ions and product numbers. For details about nes in your area, please contact your local HP sales	
HP X121 1G SFP LC LX	Ports	1 LC 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX); Duplex: full on		
Transceiver (J4859C)	Physical characteristics	Dimensions: 2.24(d) x 0.54(w) x 0.486(h) in. (5.69 x 1.37 x 1.23 cm) Weight:0.04 lb. (0.02 kg)		
HP X121 1G SFP LC LX	Environment	Operating temperature: 32°F to 158°F (0°C to 70°C)		
Transceiver: An SFP format		Operating relative humidity: 0% to 85%, noncondensing		
gigabit transceiver with LC		Nonoperating/Storage temperature: -40°F to 212°F (-40°C to 100°C)		
connectors using LX	Cabling	Altitude: up to 10,000 ft. (3 km) Type:		
technology.	capting	Type.		
		 Either single mode or multimode; 62.5/125 µm or 50/125 µm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively; Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1; Maximum distance: 2-550 m (multimode 62.5 µm core diameter, 500 MHz*km bandwidth) 2-550 m (multimode 50 µm core diameter, 400 MHz*km 		
		 bandwidth) 2-550 m (multimode 50 µm core diameter, 500 MHz* 		
		bandwidth)	lode 50 µm core diameter, 500 Mm2 km	
		• 2-10,000 m (sing	gle-mode fiber)	
	Notes	A mode conditioning patch cord may be needed in some multimode fiber installations. Wavelength: 1310nm Power Consumption: < 500mW Typical		
	Services	Refer to the HP website at www.hp.com/networking/services for details on		
	$\langle O_{i} \rangle$	the service-level descriptions and product numbers. For details about		
		services and response times in your area, please contact your local HP sale office.		
HP X111 100M SFP LC FX	Ports	1 LC 100BASE-FX port (IEEE 802.3u Type 100BASE-FX); Duplex: half o		
Transceiver (J9054C)	Physical characteristics	Dimensions	2.7(d) x 0.54(w) x 0.48(h) in. (6.86 x 1.38 x 1.22 cm)	
		Weight	0.06 lb. (0.03 kg)	
	Environment	Operating temperature	32°F to 158°F (0°C to 70°C)	
		Operating relative humidity	5% to 95%	
		Nonoperating/Storage temperature	-40°F to 185°F (-40°C to 85°C)	
		Nonoperating/Storage relative humidity	5% to 85%	
		Altitude	up to 10,000 ft. (3 km)	



Accessory Product Details

Cabling	Cable type: 62.5/125 im or 50/125 im (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively; Maximum distance: • 2 km (full duplex) or 412 m (half duplex)
Notes	Transmitter wavelength: 1310nm Power consumption is 1.1 watt maximum. For supported platforms and minimum software requirements to support this product, see the document titled "Support for the J9054C 100-FX SFP- LC Transceiver" on the "ProCurve Mini-GBICs and SFPs" Manuals Web page.
Services	Refer to the HP website at: 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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Summary of Changes

Date	Version History	Action	Description of Change:
01-Dec-2014	From Version 12 to	Changed	Updated Warranty and support
	13		
16-Dec-2013	From Version 11 to	Changed	Updated Introduction.
	12		
09-Dec-2013	From Version 10 to	Changed	Updates were made throughout the document for the
	11		12/9 refresh.
30-Sep-2013	From Version 9 to 10	Changed	Configuration was revised.
11-Sep-2013	From Version 8 to 9	Added	Configuration was added.
10-Jun-2013	From Version 7 to 8	Added	OM4 cables were added.
28-0ct-2011	From Version 6 to 7	Changed	Changes were made throughout, including changing the
			title.
30-Sep-2011	From Version 5 to 6	Added	Accessory Product Details was added.
16-Aug-2011	From Version 4 to 5	Changed	Features and benefits and models were revised.
24-May-2011	From Version 3 to 4	Changed	The Accessories section was revised. Two new models
			were added to the document as well.
09-May-2011	From Version 2 to 3	Changed	The Accessories section was revised. Two new models were added to the document as well.
15-Mar-2011	From Version 1 to 2	Changed	Changes were made throughout, including changing the title.

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101

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