Overview

Models

 HP 1810-48G Switch
 J9660A

 HP 1810-24G Switch
 J9450A

 HP 1810-8G Switch
 J9449A

Key features

- Customized operation using intuitive Web interface
- Flexible connection and deployment options
- Layer 2 operation at wire speeds
- VLANs and link aggregation support
- Lifetime warranty*

Product overview

HP 1810 switch series devices are basic smart managed fixed-configuration Gigabit Ethernet Layer 2 switches designed for small businesses looking for key features in an easy-to-administer solution. The series has three models: 8-, 24-, and 48-port 10/100/1000 switches. The 24-port model includes two dual-purpose combo SFP ports, and the 48-port model has four additional true Gigabit Ethernet SFP ports (52 total active ports) for fiber connectivity. All models support flexible deployment options, including mounting on walls or ceilings, under tables, or desktop operation, and come with an anti-theft protection Kensington Lock slot (lock not included). The 8-port model can optionally be powered by an upstream Power over Ethernet (PoE) switch. HP 1810 switches support QoS traffic prioritization and security features such as denial-of-service prevention. Customizable features include VLANs and link aggregation trunking. HP 1810 switches come with lifetime warranty.

Features and Benefits

Quality of Service (QoS)

- Traffic prioritization (IEEE 802.1p): allows real-time traffic classification with eight priority levels mapped to four queues
- Broadcast control: allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic

Management

- Simple Web management: intuitive Web GUI allows for easy management of device by even nontechnical users
- Secure Web GUI: provides a secure, easy-to-use graphical interface for configuring the module via HTTPS
- SNMPv1, v2c: devices can be discovered and monitored from an SNMP management station
- Dual flash images: provide independent primary and secondary operating system files for backup while upgrading
- Port mirroring: enables traffic on a port to be simultaneously sent to a network analyzer for monitoring
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP): automated device discovery protocol provides easy mapping by network management applications
- HP PCM: provides central management through HP PCM+ for discovery, logging, and status management

Connectivity

- Auto-MDI/MDIX: automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports
- NEW Non-shared SFP ports (1810-48G switch): four true SFP ports for optional fiber connectivity such as Gigabit-SX, -LX, or 100-FX; also support SFP 1G RJ-45 copper connections
- Dual-personality ports (1810-24G switch): two Gigabit Ethernet copper ports or SFP slots for optional fiber connectivity such



Overview

- as Gigabit-SX and -LX, or 100-FX
- IEEE 802.3af PoE-powered device option (1810-8G switch): can obtain power from a standard PoE device on Port 1, making the switch ideal for deployments where a power outlet is not available; such flexibility helps you to extend the network to wherever an Ethernet cable can reach
- Packet storm protection: protects against broadcast, multicast, or unicast storms with user-defined thresholds

Performance

- Half-/Full-duplex auto-negotiating capability on every port: doubles the throughput of every port
- Link aggregation (trunking): brings together groups of ports automatically using Link Aggregation Control Protocol (LACP), or manually, to form an ultra-high-bandwidth connection to the network backbone; helps prevent traffic bottlenecks; the 1810-8G switch has four trunks of four links each, the 1810-24G switch has eight trunks of four links each, and the 1810-48G switch has 16 trunks of eight links each
- Fiber uplink: available on 24- and 48-port models; provides greater distance connectivity using Gigabit Ethernet fiber uplinks

Layer 2 switching

- VLAN support and tagging: support up to 64 port-based VLANs and dynamic configuration of IEEE 802.1Q VLAN tagging, providing security between workgroups
- Jumbo packet support: supports up to 9220-byte frame size to improve the performance of large data transfers

Security

- Secure Sockets Layer (SSL): encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- Automatic denial-of-service protection: monitors six types of malicious attacks and protects the network by blocking the
 attacks
- Management password: provides security so that only authorized access to the Web browser interface is allowed

Ease of use

- Locator LED (switch): allows users to set the locator LED on a specific switch to either turn on, blink, or turn off; simplifies troubleshooting by making it easy to locate a particular switch within a rack of similar switches
- Comprehensive LED display with per-port indicators: provides an at-a-glance view of status, activity, speed, and full-duplex operation

Flexibility

- IEEE 802.3af PoE-powered device option (1810-8G switch): can obtain power from a standard PoE device on Port 1, making the switch ideal for deployments where a power outlet is not available; such flexibility helps you to extend the network to wherever an Ethernet cable can reach
- Flexible mounting options: mounting options include wall, ceiling, tabletop, or under table configuration for flexible installation process
- Rack mountable (1810-24G and 1810-48G switches): offers a rack-mounting option with included hardware
- Kensington Lock slot: allows switches to be secured in open-space deployments

Additional information

- Green initiative support: provides support for RoHS and WEEE regulations
- Green IT and power: automatically places inactive ports in low power mode and its LED in power down mode to conserve energy

Warranty and support



Overview

- 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 for details on the support provided and the period during which support is available



^{*} Hardware warranties replacement for as long as you own the product, with next business day advance replacement (available in most countries). The disk drive included with HP Alliance One Advanced Services and Services zl Modules, HP Threat Management Services zl Module, HP AllianceOne Ext zl Mod w/Rvrbd Stlhd, HP E-MSM765zl Mobility Controller and HP Surv Brch Com zl Mod pwrby Msft Lync has a five-year hardware warranty. For details, refer to the Software license and hardware warranty statements at: www.hp.com/networking/warranty.

Technical Specifications

HP	1810-48G Swit	ch
(J9	660A)	

Ports 48 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

4 SFP 100/1000 Mbps ports

Supports a maximum of 48 autosensing 10/100/1000 ports plus 4 SFP

ports

Physical characteristics Dimensions $9.75(d) \times 17.4(w) \times 1.75(h)$ in. $(24.77 \times 44.2 \times 10^{-2})$

4.45 cm) (1U height)

Weight 6.30 lb. (2.86 kg), Fully loaded

Memory and processor

Electrical characteristics

Mounting

8 MB flash, 64 MB SDRAM; packet buffer size: 1.5 MB Mounts in an EIA-standard 19 in. telco rack (hardware included); wall,

desktop, tabletop, and undertable mounting

Performance 100 Mb Latency $< 8.4 \mu s$ (64-byte packets)

1000 Mb Latency $< 3.2 \mu s$ (64-byte packets)

Throughput up to 77.4 million pps (64-byte packets)

Switching capacity 104 Gbps
MAC address table size 16000 entries

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

Operating relative

humidity

15% to 95% @ 104°F (40°C), noncondensing

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

temperature

10 1 10 100 1 (10 0 10 7 0 0)

Nonoperating/Storage

relative humidity

15% to 90% @ 149°F (65°C), noncondensing

Altitude up to 10,000 ft. (3 km)

Acoustic Power: 22 dB single fan

Maximum heat dissipation 204 BTU/hr (215.22 kJ/hr)

Voltage 100-127/200-240 VAC

 $\begin{array}{ll} \text{Current} & 0.9/0.5 \text{ A} \\ \text{Maximum power rating} & 60 \text{ W} \\ \text{Frequency} & 50/60 \text{ Hz} \end{array}$

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.

Safety CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950

Emissions FCC Rules Part 15, Subpart B Class A; EN 55022; VCCI; ICES-003

(Canada)

Immunity EN EN 55024, CISPR 24

ESD IEC 61000-4-2



Management

Notes Services

Technical Specifications

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	ILC 01000-4-0					
Voltage dips and interruptions	IEC 61000-4-11					
Harmonics	IEC 61000-3-2					
Flicker	IEC 61000-3-3					
HP PCM; Web browser						
	ine HP mini-GBICs with your switch.					
, , ,	x5 coverage for hardware (HS854E)					
,	x7 coverage for hardware (HS856E)					
•	x7 coverage for hardware, 24x7 SW phone support					
and SW updates (HS858I						
	x7 coverage for hardware, 24x7 SW phone support					
and SW updates (U6321E)						
, .	support, software updates (HS859E)					
•	support, software updates (UF792E) hour onsite, 13x5 coverage for hardware (HS846E)					
	hour onsite, 24x7 coverage for hardware (HS848E)					
1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7						
software phone support (HS850E)						
Installation with minimum configuration, system-based pricing (U4826E)						
Installation with HP-provided configuration, system-based pricing (U4830E)						
	x5 coverage for hardware (HS862E)					
•	x5 coverage for hardware (UR948E)					
4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)						
4-year, 4-hour onsite, 24x7 coverage for hardware (HS864E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone						
(UR950E)	x/ coverage for hardware, 24x/ software phone					
,	x7 coverage for hardware, 24x7 software phone					
(HS866E)						
4-year, 24x7 SW phone s	support, software updates (UR951E)					
•	support, software updates (HS867E)					
	x5 coverage for hardware (UR952E)					
,	x5 coverage for hardware (HS870E)					
5-year, 4-hour onsite, 24x7 coverage for hardware (HS872E)						
5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone						
(HS874E)						
,	x7 coverage for hardware, 24x7 software phone					
(UR954E)						
5-year, 24x7 SW phone support, software updates (HS875E)						
5-year, 24x7 SW phone support, software updates (UR955E)						
3 Yr 6 hr Call-to-Repair Onsite (UW368E)						



3 Yr 6 hr Call-to-Repair Onsite (HS860E) 4 Yr 6 hr Call-to-Repair Onsite (HS868E)

Technical Specifications

4 Yr 6 hr Call-to-Repair Onsite (UW369E) 5 Yr 6 hr Call-to-Repair Onsite (UW370E) 5 Yr 6 hr Call-to-Repair Onsite (HS876E)

1-year, 6 hour Call-To-Repair Onsite for hardware (HS852E) 1-year, 24x7 software phone support, software updates (HS851E)

Refer to the HP website at: www.hp.com/networking/services for details on

service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 1810-24G Switch (J9450A)

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

2 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC

transceivers)

Dimensions 6.74(d) x 17.42(w) x 1.73(h) in. (17.12 x 44.25 Physical characteristics

x 4.39 cm) (1U height)

Weight 4.32 lb. (1.96 kg), Fully loaded

Memory and processor

Mounting

8 MB flash, 16 MB SDRAM; packet buffer size: 512 KB

desktop, tabletop, and undertable mounting

Performance 100 Mb Latency $< 7.4 \,\mu s$ (64-byte packets)

> 1000 Mb Latency $< 3.0 \,\mu s$ (64-byte packets)

up to 35.7 million pps (64-byte packets) Throughput

Mounts in an EIA-standard 19 in. telco rack (hardware included); wall,

Switching capacity 48 Gbps 8000 entries MAC address table size

Environment 32°F to 104°F (0°C to 40°C) Operating temperature

Operating relative

15% to 95% @ 104°F (40°C), noncondensing

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) Power: 0 dB no fan Acoustic

Electrical characteristics Maximum heat dissipation 102 BTU/hr (107.61 kJ/hr)

> Voltage 100-127/200-240 VAC

Current 0.7/0.4 A 30 W Maximum power rating 50/60 Hz Frequency



Technical Specifications

ons			
	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.	
Safety	CSA 22.2 No. 60950; EN	I 60950/IEC 60950; UL 60950	
Emissions	FCC Rules Part 15, Subpart B Class A; EN 55022; VCCI; ICES-003 (Canada)		
Immunity	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	
Management	HP PCM; Web browser		
Notes	Use only supported genuir	ne HP mini-GBICs with your switch.	
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E) 3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E) 3-year, 24x7 SW phone support, software updates (UF792E) 1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR849E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR850E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR851E) 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 (UR948E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR951E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E) 5-year, 24x7 SW phone support, software updates (UR955E) 5-year, 24x7 SW phone support (UW368E) 5-year, 24x7 SW phone support (UW369E) 5-year, 6-hour Call-to-Repair Onsite (UW369E) 5-year, 6-hour Call-to-Repair Onsite for hardware (HR853E)		

Technical Specifications

1-year, 24x7 software phone support, software updates (HR852E)

3-year, 24x7 software phone support, software updates + Next Business Day

Hardware Exchange (HS556E)

3-year, 24x7 software phone support, software updates + 4 hour Hardware

Exchange (HS557E)

4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (H\$558E)

4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)

5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)

5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)

Refer to the HP website at: www.hp.com/networking/services for details on

service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 1810-8G Switch (J9449A)

Ports 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

Physical characteristics **Dimensions** 4.58(d) x 7.73(w) x 1.73(h) in. (11.63 x 19.63 x

4.39 cm) (1U height)

Weight 1.19 lb. (0.54 kg), Fully loaded

Memory and processor

8 MB flash, 16 MB SDRAM; packet buffer size: 512 KB

Mounting

Wall, ceiling, desktop, and under-table mounting

Performance

100 Mb Latency $< 3.9 \mu s$ (64-byte packets)

1000 Mb Latency $< 2.1 \,\mu s$ (64-byte packets)

> up to 11.9 million pps (64-byte packets) Throughput

Switching capacity 16 Gbps 8000 entries MAC address table size

Environment 32°F to 104°F (0°C to 40°C) Operating temperature

15% to 95% @ 104°F (40°C), noncondensing Operating relative

humidity

Acoustic

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage temperature

Nonoperating/Storage

15% to 90% @ 149°F (65°C), noncondensing

relative humidity Altitude

up to 10,000 ft. (3 km) Power: 0 dB no fan

Electrical characteristics Maximum heat dissipation 51 BTU/hr (53.81 kJ/hr)

> Voltage 100-240 VAC

Current 0.5 A 15 W Maximum power rating



Technical Specifications

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; EN 60950/IEC 60950; UL 60950

Emissions FCC Rules Part 15, Subpart B Class A; EN 55022; VCCI; ICES-003

(Canada)

Immunity 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 IEC 61000-4-11

interruptions

Harmonics IEC 61000-3-2 Flicker IEC 61000-3-3

Management HP PCM; Web browser

Notes Use only supported genuine HP mini-GBICs with your switch.

Power: external AC power adapter and IEEE 802.3af-compatible PoE-PD,

class 3 on Port 1

Services 3-year, 4-hour onsite, 13x5 coverage for hardware (UE256E)

3-year, 4-hour onsite, 24x7 coverage for hardware (UE257E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support

and SW updates (UE258E)

3-year, 24x7 SW phone support, software updates (UE260E)

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 (UR846E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR847E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone

(UR848E)

4-year, 24x7 SW phone support, software updates (UR849E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR850E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR851E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone

(UR852E)

5-year, 24x7 SW phone support, software updates (UR853E)



Technical Specifications

3 Yr 6 hr Call-to-Repair Onsite (UW383E) 4 Yr 6 hr Call-to-Repair Onsite (UW384E) 5 Yr 6 hr Call-to-Repair Onsite (UW385E)

Refer to the HP website at: www.hp.com/networking/services for details on

service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Standards and protocols (applies to all products in series)

Denial of service CPU DoS Protection protection

General protocols IEEE 802.1p Priority IEEE 802.1Q VLANs

IEEE 802.3ad Link Aggregation Control Protocol

(LACP)

IEEE 802.3x Flow Control

RFC 1534 DHCP/BOOTP Interoperation

RFC 2030 Simple Network Time Protocol (SNTP)

v4

Network management IEEE 802.1AB Link Layer Discovery Protocol

(LLDP)



Accessories

HP 1810 Switch Series accessories

Cables	
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
Mounting Kit	
HP X410 E-Series 1U Universal 4-Post Rack Mounting Kit	J9583A
HP 1810-48G Switch (J9660A)	
HP X111 100M SFP LC FX Transceiver	J9054C
HP X121 1G SFP LC SX Transceiver	J4858C
HP X121 1G SFP LC LX Transceiver	J4859C
HP X121 1G SFP RJ45 T Transceiver	J8177C
HP 1810-24G Switch (J9450A)	
HP X111 100M SFP LC FX Transceiver	J9054C
HP X121 1G SFP LC SX Transceiver	J4858C
HP X121 1G SFP LC LX Transceiver	J4859C



Accessory Product Details

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

HP 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A) Cabling

Notes

Cable type:

 $50/125~\mu m$ (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

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 ± 3.0 um Cladding diameter: 125 ± 2.0 um Coating diameter: 245 ± 10 um
- 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

Services



Accessory Product Details

HP 1 m Multimode OM3 Cabling LC/LC Optical Cable (AJ834A)

Notes

Cable type:

 $50/125\,\mu m$ (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

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 \pm 3.0um Cladding diameter: 125 \pm 2.0um Coating diameter: 245 \pm 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

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.

Services

Accessory Product Details

HP 2 m Multimode OM3 Cabling LC/LC Optical Cable (AJ835A)

Notes

Cable type:

 $50/125~\mu m$ (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

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 \pm 3.0um Cladding diameter: 125 \pm 2.0um Coating diameter: 245 \pm 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: 0.454Ka

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.

Services

Accessory Product Details

HP 5 m Multimode OM3 Cabling LC/LC Optical Cable (AJ836A)

Notes

Cable type:

 $50/125~\mu m$ 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

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.

- 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

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.

Services

Accessory Product Details

HP 15 m Multimode OM3 LC/LC Optical Cable (AJ837A) Cabling

Notes

Cable type:

 $50/125~\mu m$ (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

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 ± 3.0 um Cladding diameter: 125 ± 2.0 um Coating diameter: 245 ± 10 um

 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



Accessory Product Details

HP 30 m Multimode OM3 LC/LC Optical Cable (AJ838A) Cabling

Notes

Cable type:

 $50/125~\mu m$ (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

Cable Space: Tight buffered dupley fib

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 \pm 3.0um Cladding diameter: 125 \pm 2.0um Coating diameter: 245 \pm 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: 0.454Ka

Services

Accessory Product Details

HP 50 m Multimode OM3 LC/LC Optical Cable (AJ839A) Cabling

Cable type:

 $50/125\,\mu\text{m}$ (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 fib

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 \pm 3.0um Cladding diameter: 125 \pm 2.0um Coating diameter: 245 \pm 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: 0.454Ka

Services

Accessory Product Details

HP 0.5 m PremierFlex OM3+ LC/LC Optical Cable (BK837A) 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 \pm 3um; Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 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 longitudal 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 @ 1310 nm @ 23°C as tested in accordance with EIA 455-46

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 1 m PremierFlex OM3+ LC/LC Optical Cable (BK838A) 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 \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 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.
- \bullet Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths $>\!30\text{m}$
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

Services

Accessory Product Details

HP 2 m PremierFlex OM3+ LC/LC Optical Cable (BK839A) 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 \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 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.
- \bullet Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths $>\!30\text{m}$
- 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 5 m PremierFlex OM3+ LC/LC Optical Cable (BK840A) 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: $50 \text{um} \pm 3 \text{um}$, Cladding diameter: $125 \text{um} \pm 2 \text{um}$; Coating diameter: $245 \pm 10 \text{um}$
- 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.
- \bullet Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths $>\!30\text{m}$
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

Services



Accessory Product Details

HP 15 m PremierFlex OM3+ LC/LC Optical Cable (BK841A) Notes

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- \bullet Core diameter: 50um \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 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.
- \bullet Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths $>\!30\text{m}$
- 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 30 m PremierFlex OM3+ LC/LC Optical Cable (BK842A)

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: $50 \text{um} \pm 3 \text{um}$, Cladding diameter: $125 \text{um} \pm 2 \text{um}$; Coating diameter: $245 \pm 10 \text{um}$
- 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.
- \bullet Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths $>\!30\text{m}$
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

Services



Accessory Product Details

HP 50 m PremierFlex OM3+ LC/LC Optical Cable (BK843A) 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 \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 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.
- \bullet Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths $>\!30\text{m}$
- 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 X410 1U Universal 4- Notes post Rack Mounting Kit (J9583A) The rack mounting kit supports the 1U, full width switches in the following switch series and the power supply: V1810 Series, E2510 Series, E2520 Series, E2610 Series, E2810 Series, E2910 Series, E3500 Series, and the E620 Power Supply This universal rack mounting kit is design to fit the following racks: HP 10K 10642, HP 10K 10842, Panduit CN, Panduit CS, Wrightline Vantage S2, APC Netshelter 600mm, and APC Netshelter 800mm. It may well fit many other brands and models too.

Services



Accessory Product Details

HP X111 100M SFP LC FX Ports

Transceiver (J9054C)

Physical characteristics

HP X111 100M SFP LC FX Environment

Transceiver: An SFP format 100-megabit transceiver with LC connectors using

FX technology.

Operating relative humidity: 5% to 95%

Nonoperating/Storage temperature: -40°F to 185°F (-40°C to 85°C)

Dimensions: 2.7(d) x 0.54(w) x 0.48(h) in. (6.86 x 1.38 x 1.22 cm)

1 LC 100BASE-FX port (IEEE 802.3u Type 100BASE-FX); Duplex: half or full

Nonoperating/Storage relative humidity: 5% to 85%

Operating temperature: 32°F to 158°F (0°C to 70°C)

Altitude: up to 10,000 ft. (3 km)

Weight: 0.06 lb. (0.03 kg)

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.

1 LC 1000BASE-SX port; Duplex: full only

Weight: 0.04 lb. (0.02 kg)

Transceiver form factor: SFP

For supported platforms and minimum software requirements to support this product, see the document titled "Support for the J9054B 100-FX SFP-LC Transceiver" on the "ProCurve Mini-GBICs and SFPs" Manuals Web page.

and response times in your area, please contact your local HP sales office.

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

HP X121 1G SFP LC SX

Transceiver (J4858C)

Physical characteristics

A small form-factor pluggable (SFP) Gigabit SX Environment transceiver that provides a full-duplex Gigabit solution up to 550 m on multimode

fiber.

Ports

Operating temperature: 32°F to 158°F (0°C to 70°C) Operating relative humidity: 5% to 85%, noncondensing

Nonoperating/Storage temperature: -40°F to 203°F (-40°C to 85°C)

Dimensions: 2.24(d) x 0.54(w) x 0.48(h) in. (5.69 x 1.37 x 1.22 cm)

Altitude: up to 10,000 ft. (3 km) Power consumption typical: 0.4 W Power consumption maximum: 0.7 W

Cabling

Electrical characteristics

Type:

• $62.5/125 \,\mu\text{m}$ or $50/125 \,\mu\text{m}$ (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 μ m core diameter, 160 MHz*km bandwidth
- 2-275 m (62.5 μ m core diameter, 200 MHz*km bandwidth
- 2-500 m (50 μ m core diameter, 400 MHz*km bandwidth)
- 2-550 m (50 μ m core diameter, 500 MHz*km bandwidth)

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



Accessory Product Details

Services

Cabling

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 LX

Transceiver (J4859C)

Ports Physical characteristics

1 LC 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX); Duplex: full only 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 Transceiver: An SFP format gigabit transceiver with LC connectors using LX technology.

Operating temperature: 32°F to 158°F (0°C to 70°C) Operating relative humidity: 0% to 85%, noncondensing

Nonoperating/Storage temperature: -40°F to 212°F (-40°C to 100°C)

Altitude: up to 10,000 ft. (3 km)

Type:

Either single mode or multimode; $62.5/125 \mu m$ or $50/125 \mu m$ (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 μ m 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*km bandwidth)
- 2-10,000 m (single-mode fiber)

Notes

A mode conditioning patch cord may be needed in some multimode fiber installations.

Wavelength: 1310nm

Power Consumption: < 500mW Typical

Services



Accessory Product Details

HP X121 1G SFP RJ45 T Ports

Transceiver (J8177C)

HP X121 1G SFP RJ45 T

Transceiver: An SFP format Environment gigabit transceiver with RJ45 connectors using 1000BaseT technology.

Physical characteristics

1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T); Duplex: full only

Dimensions: 2.71(d) x 0.54(w) x 0.55(h) in. (6.88 x 1.37 x 1.4 cm)

Weight: 0.06 lb. (0.03 kg)

Operating temperature: 32°F to 158°F (0°C to 70°C); with 100 LFM airflow

over the SFP module)

Operating relative humidity: 0% to 95% @ 75°F (25°C), noncondensing Nonoperating/Storage temperature: -40°F to 185°F (-40°C to 85°C) Nonoperating/Storage relative humidity: 0% to 95% @ 77°F (25°C),

noncondensing

Altitude: up to 10,000 ft. (3000 km)

Cabling Cable type:

1000BASE-T: Category 5 (5E or better recommended), 100 Ù differential 4pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced,

complying with IEEE 802.3ab 1000BASE-T;

Maximum distance:

• 100 m

Notes Power consumption is nominally 1 watt.

> For supported platforms and minimum software requirements to support this product, see the document titled "Support for the J8177C 1000Base-T Mini-GBIC" on the "ProCurve Mini-GBICs and SFPs" Manuals Web page.

The J8177C Gigabit copper mini-GBIC is not supported on dual-personality

ports.

The J8177C is capable of 100 Mb operation. This is supported on only the HP ProCurve Switch 8200zl, 5400zl, and 6200yl Series using software version K.12.21 or later. Use the "auto-100" port setting to enable 100 Mb

operation.

Important: The earlier J8177B does not support 100 Mb operation. When used in the ProCurve Switch gl 20-Port 10/100/1000 Module (J4908A), the J8177C mini-GBIC can be installed in either the upper or

lower mini-GBIC port, but will block access to the other port.

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.

To learn more, visit: www.hp.com/networking

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