Overview

Models

HP 4510-48G Switch

HP 4510-24G Switch

JF428A

JF847A

Key features

- Enterprise-class security features
- Wire-speed switching capacity up to 176 Gbps
- Dual-personality copper/fiber ports
- Single IP address management
- IEEE 802.1X network access control

Product overview

The HP 4510G Switch Series provides advanced Gigabit Ethernet access and distribution for medium-sized businesses and smaller enterprise organizations seeking to build a secure converged network. HP 4510G switches support security, and management features, and accommodate up to four optional 10 GbE high-speed links, enabling connectivity to a core network or high-performance servers. The combination of high-performance Gigabit Ethernet switching, quality of service (QoS), and traffic management features help ensure that essential applications receive appropriate priority for efficient utilization of network resources. The series also offers single address management.

Features and benefits

Quality of Service (QoS)

- Layer 4 prioritization: enables prioritization based on TCP/UDP port numbers
- Traffic prioritization (IEEE 802.1p): allows real-time traffic classification into eight priority levels mapped to eight queues
- Class of Service (CoS): sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ
- Rate limiting: sets per-port ingress enforced maximums and per-port, per-queue guaranteed minimums
- Bandwidth shaping:
 - O Rate limiting: provides per-port, ingress-based enforced bandwidth maximums
 - O Guaranteed minimums: provides per-port, per-queue egress-based guaranteed bandwidth minimums
- Broadcast control: allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic

Management

- Remote configuration and management: is available through a secure Web browser or a command-line interface (CLI)
- Manager and operator privilege levels: enable read-only (operator) and read-write (manager) access on CLI and Web browser management interfaces
- Management VLAN: segments traffic to and from management interfaces, including CLI/telnet, a Web browser interface, and SNMP
- RADIUS accounting support: separates RADIUS accounting server support per SSID; provides detailed session, usage, and billing information for each client activity
- Multiple configuration files: can be stored to the flash image
- Dual flash images: provide independent primary and secondary operating system files for backup while upgrading
- Secure Web GUI: provides a secure, easy-to-use graphical interface for configuring the module via HTTPS
- Command-line interface (CLI): provides a secure, easy-to-use command-line interface for configuring the module via SSH or



Overview

- a switch console; provides direct real-time session visibility
- SNMPv1, v2c, and v3: facilitate centralized discovery, monitoring, and secure management of networking devices
- Port mirroring: enables traffic on a port to be simultaneously sent to a network analyzer for monitoring
- 3Com-heritage Comware Operating System: CLI and Web user interface in common with HP E4xxx and E55xxx series switches

Connectivity

- Auto-MDIX: automatically adjusts for straight-through or crossover cables on all 10/100 and 10/100/1000 ports
- Dual-personality functionality: includes four 10/100/1000 ports or SFP slots for optional fiber connectivity such as Gigabit-SX, -LX, and -LH, or 100-FX
- IEEE 802.3af Power over Ethernet (PoE): provides up to 15.4 W per port to IEEE 802.3af-compliant PoE-powered devices such as IP phones, wireless access points, and security cameras
- Optional 10 Gigabit Ethernet ports: allow the addition of 10 Gigabit Ethernet connections for uplinks or high-bandwidth server connections; flexibly supports XFP, SFP+, or CX4 local connections

Manageability

- RMON (remote monitoring): provides advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- Dual flash images: provides independent primary and secondary operating system files for backup while upgrading
- Full-featured console: provides complete control of the switch with a familiar command-line interface (CLI)
- Web interface: allows configuration of the switch from any Web browser on the network
- Multiple configuration files: allow multiple configuration files to be stored to a flash image
- Software updates: free downloads from the Web
- sFlow (RFC 3176): wire-speed traffic accounting and monitoring
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP): automated device discovery protocol provides easy mapping using network management applications

Layer 2 switching

- VLAN support and tagging: support IEEE 802.1Q with 4,094 simultaneous VLAN IDs
- GARP VLAN Registration Protocol: allows automatic learning and dynamic assignment of VLANs
- IP multicast snooping and data-driven IGMP: automatically prevents flooding of IP multicast traffic
- Jumbo packet support: supports up to 9220-byte frame size to improve the performance of large data transfers
- IEEE 802.1ad QinQ: increases the scalability of an Ethernet network by providing a hierarchical structure; connects multiple LANs on a high-speed campus or metro network

Layer 3 routing

- Static IP routing: provides manually configured routing; includes ECMP capability
- Routing Information Protocol (RIP): provides RIPv1 and RIPv2 routing

Security

- Access control lists (ACLs): provide IP Layer 3 filtering based on source/destination IP address/subnet and source/destination TCP/UDP port number
- RADIUS/TACACS+: eases switch management security administration by using a password authentication server
- Secure Shell: encrypts all transmitted data for secure remote CLI access over IP networks
- Secure Web management with HTTPS and SSL: encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- IEEE 802.1X and RADIUS network logins: control port-based access for authentication and accountability
- Port security: allows access only to specified MAC addresses, which can be learned or specified by the administrator
- MAC address lockout: prevents particular configured MAC addresses from connecting to the network



Overview

- Secure FTP: allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file
- Switch management logon security: can require either RADIUS or TACACS+ authentication for secure switch CLI logon
- Secure management access: securely encrypts all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3
- Custom banner: displays security policy when users log in to the switch
- Automatic VLAN assignment: automatically assigns users to the appropriate VLAN based on their identity and location and the time of day
- Management password: provides security so that only authorized access to the Web browser interface is allowed
- STP BPDU port protection: blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
- Dynamic IP lockdown: works with DHCP protection to block traffic from unauthorized hosts, preventing IP source address spoofing
- DHCP protection: blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks
- Dynamic ARP protection: blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data
- STP Root Guard: protects the root bridge from malicious attacks or configuration mistakes

Convergence

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP): is an automated device discovery protocol that provides easy mapping of network management applications
- Automated voice VLAN assignment: recognizes IP phones and automatically assigns voice traffic to a dedicated VLAN for IP phones

Warranty and support

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



^{*} 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 4510-48G Switch (JF428A)

Ports 2 open module slots

44 RJ-45 auto-negotiating 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type

100BASE-TX, IEEE 802.3ab Type 1000BASE-T)

4 SFP dual-personality 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-

TX, IEEE 802.3ab Type 1000BASE-T)

Physical characteristics Dimensions 16.54(d) x 17.32(w) x 1.72(h) in. (42.0 x 44.0 x 4.37 cm) (1U height)

Weight 11.02 lb. (5 kg)

Memory and processor Processor Power PC @ 200 MHz, 16 MB flash, 128 MB SDRAM; packet buffer size: 4

MB shared packet buffer

Performance 1000 Mb Latency $< 3.2 \,\mu s$

10 Gbps Latency $< 2.6 \,\mu s$

Throughput 131 million pps
Switching capacity 176 Gbps
MAC address table size 16000 entries

Reliability MTBF (years) 14.9

Environment Operating temperature

Operating relative

humidity

32°F to 113°F (0°C to 45°C)

10% to 90%, noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Electrical characteristics Voltage

Maximum power rating 120 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.

100-240 VAC

Safety IEC 60950-1; EN 60950; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03

Emissions FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55022; EN 55024;

ICES-003 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4;

EN 61000-4-5; EN 61000-4-6

Management IMC - Intelligent Management Center; command-line interface; Web browser; out-of-band management

(serial RS-232C); SNMP Manager; Telnet

Services 3-year, 4-hour onsite, 13x5 coverage for hardware (UV834E)

3-year, 4-hour onsite, 24x7 coverage for hardware (UV837E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UV840E)

3-year, 24x7 SW phone support, software updates (UV843E)

1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR668E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR669E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support

(HR670E)

4-year, 4-hour onsite, 13x5 coverage for hardware (UV835E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV838E)



Technical Specifications

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV841E)

4-year, 24x7 SW phone support, software updates (UV844E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV836E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV839E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV842E)

5-year, 24x7 SW phone support, software updates (UV845E)

3 Yr 6 hr Call-to-Repair Onsite (UW434E) 4 Yr 6 hr Call-to-Repair Onsite (UW435E) 5 Yr 6 hr Call-to-Repair Onsite (UW436E)

1-year, 6 hour Call-To-Repair Onsite for hardware (HR672E) 1-year, 24x7 software phone support, software updates (HR671E)

1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS714E)

1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS715E) 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS716E)

3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS717E) 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS718E)

4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS719E) 5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS720E)

5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS721E)

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 4510-24G Switch (JF847A)

Ports 2 open module slots

20 RJ-45 auto-negotiating 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3 υ Type

100BASE-TX, IEEE 802.3ab Type 1000BASE-T)

4 SFP auto-negotiating 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-

TX, IEEE 802.3ab Type 1000BASE-T)

Physical characteristics Dimensions 11.81(d) x 17.32(w) x 1.72(h) in. (30.0 x 44.0 x 4.37 cm) (1U height)

Weight 9.92 lb. (4.5 kg)

Memory and processor Processor Power PC @ 200 MHz, 16 MB flash, 128 MB SDRAM; packet buffer size: 2

MB shared packet buffer

Performance 1000 Mb Latency $< 3.2 \,\mu s$

10 Gbps Latency $< 2.6 \,\mu \mathrm{s}$

Throughput 93.2 million pps

Switching capacity 128 Gbps
MAC address table size 16000 entries

Reliability MTBF (years) 23

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

Operating relative 10% to 90%, noncondensing

humidity



Technical Specifications

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Electrical characteristics

Voltage

Maximum power rating

80 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.

100-240 VAC

Safety

IEC 60950-1; EN 60950; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03

Emissions

FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55022; EN 55024; ICES-003 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4;

EN 61000-4-5; EN 61000-4-6

Management

IMC - Intelligent Management Center; command-line interface; Web browser; out-of-band management (serial RS-232C); SNMP Manager; Telnet

Services

3-year, 4-hour onsite, 13x5 coverage for hardware (UX198E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UX201E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UX204E)

3-year, 24x7 SW phone support, software updates (UX207E)

1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR663E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR664E)

4-year, 4-hour onsite, 13x5 coverage for hardware (UX199E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UX202E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UX205E)

4-year, 24x7 SW phone support, software updates (UX208E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UX200E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UX203E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UX206E)

5-year, 24x7 SW phone support, software updates (UX209E)

3 Yr 6 hr Call-to-Repair Onsite (UX210E) 4 Yr 6 hr Call-to-Repair Onsite (UX211E) 5 Yr 6 hr Call-to-Repair Onsite (UX212E)

1-year, 6 hour Call-To-Repair Onsite for hardware (HR667E) 1-year, 24x7 software phone support, software updates (HR666E)

1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR665E)

1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS730E)

1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS731E) 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS732E)

3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS733E) 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS734E)

4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS735E) 4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS735E) 5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS737E)



Technical Specifications

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.

Standards and protocols

(applies to all products in series)

General protocols

IEEE 802.1ag Service Layer OAM IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q (GVRP)

IEEE 802.1s Multiple Spanning Trees

IEEE 802.1v VLAN classification by Protocol and

Port

IEEE 802.1w Rapid Reconfiguration of Spanning

Tree

IEEE 802.1X PAE

IEEE 802.3ad Link Aggregation (LAG)
IEEE 802.3ae 10-Gigabit Ethernet

IEEE 802.3x Flow Control

RFC 768 UDP RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET

RFC 925 Multi-LAN Address Resolution

RFC 951 BOOTP RFC 1058 RIPv1

RFC 1350 TFTP Protocol (revision 2)

RFC 1519 CIDR

RFC 1542 Clarifications and Extensions for the

Bootstrap Protocol RFC 2131 DHCP RFC 2453 RIPv2

RFC 3046 DHCP Relay Agent Information Option

RFC 3576 Ext to RADIUS (CoA only) RFC 4675 RADIUS VLAN & Priority

IPv6

RFC 2080 RIPng for IPv6 RFC 2460 IPv6 Specification

RFC 2710 Multicast Listener Discovery (MLD) for

IPv6

RFC 2740 OSPFv3 for IPv6

RFC 2925 Definitions of Managed Objects for

Remote Ping, Traceroute, and Lookup Operations

(Ping only)

RFC 3019 MLDv1 MIB RFC 3162 RADIUS and IPv6

RFC 3315 DHCPv6 (client and relay)

RFC 3513 IPv6 Addressing Architecture

RFC 3810 MLDv2 (host joins only) RFC 4022 MIB for TCP

RFC 4251 SSHv6 Architecture

MIBs

IEEE 8021-PAE-MIB IEEE 8023-LAG-MIB RFC 1213 MIB II RFC 1493 Bridge MIB RFC 1724 RIPv2 MIB

RFC 2011 SNMPv2 MIB for IP RFC 2013 SNMPv2 MIB for UDP

RFC 2233 Interface MIB RFC 2452 IPV6-TCP-MIB RFC 2454 IPV6-UDP-MIB RFC 2465 IPv6 MIB RFC 2466 ICMPv6 MIB

RFC 2571 SNMP Framework MIB RFC 2572 SNMP-MPD MIB RFC 2573 SNMP-Notification MIB RFC 2573 SNMP-Target MIB RFC 2665 Ethernet-Like-MIB

RFC 2819 RMON MIB RFC 2925 Ping MIB

RFC 3414 SNMP-User based-SM MIB RFC 3415 SNMP-View based-ACM MIB

RFC 3418 MIB for SNMPv3

RFC 3826 AES for SNMP's USM MIB RFC 4133 Entity MIB (Version 3)

LLDP-EXT-DOT1-MIB LLDP-EXT-DOT3-MIB LLDP-MIB

Network management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) RFC 3176 sFlow ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3

Security

IEEE 802.1X Port Based Network Access Control RFC 1492 TACACS+ RFC 2865 RADIUS Authentication RFC 2866 RADIUS Accounting Secure Sockets Layer (SSL) SSHv2 Secure Shell



Technical Specifications

RFC 4252 SSHv6 Authentication

RFC 4253 SSHv6 Transport Layer

RFC 4254 SSHv6 Connection

RFC 4293 MIB for IP

RFC 4419 Key Exchange for SSH

RFC 4443 ICMPv6

RFC 4541 IGMP & MLD Snooping Switch

RFC 4861 IPv6 Neighbor Discovery

RFC 4862 IPv6 Stateless Address Auto-

configuration



Accessories

| UD 45100 C ** C * | | |
|------------------------|--|------------------|
| HP 4510G Switch Series | Modules | 150504 |
| accessories | HP 4500/4800 1-port 10GbE XFP Module | JE053A |
| | HP 4500/4800 2-port 10GbE XFP Module | JE049A |
| | HP 5500/5120 2-port 10GbE SFP+ Module | JD368B |
| | HP 4500/4800 2-port 10GbE LCM Module | JE051A |
| | HP 5500 2-port 10GbE Local Connect Module | JD360B |
| | Transceivers HP X110 100M SFP LC FX Dual Mode Transceiver | ID 407A |
| | | JD497A |
| | HP X110 100M SFP LC LX Dual Mode Transceiver HP X125 1G SFP RJ45 T Transceiver | JD498A |
| | HP X124 1G SFP LC SX Transceiver | JD089B |
| | HP X125 1G SFP LC SX Transceiver | JD493A JD063B |
| | HP X130 SC LR XFP Transceiver | JD003B JD108B |
| | HP X130 LC SR XFP Transceiver | JD106B JD117B |
| | HP X135 LC ER XFP Transceiver | JD1176 JD121A |
| | HP X130 CX4 XFP Transceiver | JD506A |
| | HP X130 SFP+ LC SR Transceiver | JD000A JD092B |
| | HP X130 SFP+ LC JRM Transceiver | JD092B JD093B |
| | HP X130 SFP+ LC LRW Hansceiver | JD093B JD094B |
| | HP X240 SFP+ SFP+ 0.65 m Direct Attach Cable | JD074B |
| | HP X240 SFP+ SFP+ 1.2 m Direct Attach Cable | JD075B |
| | HP X240 SFP+ SFP+ 3 m Direct Attach Cable | JD097B |
| | Cables | 300776 |
| | HP 50 cm CX4 Cable | JE054A |
| | HP 100 cm CX4 Cable | JE055A |
| | HP 300 cm CX4 Cable | JE056A |
| | 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 |
| | HP X230 Local Connect 50cm CX4 Cable | JD363B |
| | HP X230 Local Connect 100cm CX4 Cable | JD364B |
| | HP X230 CX4 to CX4 3m Cable | JD365A |
| | HP 4510-48G Switch (JF428A) | |
| | 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 |
| | • | |



Accessory Product Details

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

| HP 4500/4800 1-port | Ports | 1 XFP 10-GbE port; Duplex: full only | | |
|--|----------------------------|--|--|--|
| 10GbE XFP Module (JE053A) | 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 4500/4800 2-port 10GbE XFP Module (JE049A) | Ports | 2 XFP 10-GbE ports; Duplex: full only | | |
| | 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 4500/4800 2-port 10GbE LCM Module (JE051A) | Ports | 2 CX4 10-GbE ports; Duplex: full only | | |
| | 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 X110 100M SFP LC | Ports | 1 LC 100 Mbps port | | |
| FX Dual Mode Transceiver(JD497A) | Connectivity | Connector type | LC | |
| | | Wavelength | 1310 nm | |
| A small form-factor pluggable (SFP) 100 MB/s Dual mode transceiver that provides a full duplex 100Mb/s solution up to 2km on a multi mode fiber. | Physical characteristics | Dimensions | 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) | |
| | t | Full configuration weight | 0.04 lb. (0.02 kg) | |
| | Electrical characteristics | Power consumption typical | 0.8 W | |
| | | Power consumption maximum | 1.0 W | |
| | Cabling | Cable length | 2km | |
| | | Fiber type | Multi Mode | |
| | 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. | | |



Accessory Product Details

transceiver that provides a

a single mode cable.

pluggable (SFP) Gigabit 1000Base-T transceiver

Gigabit solution up to

that provides a full duplex

100m on a Cat-5+ cable.

HP X110 100M SFP LC 1 LC 100 Mbps port

LX10 Transceiver(JD498A) Connectivity LC Connector type

Wavelength 1310 nm A small form-factor

pluggable (SFP) 100Mb/s Physical characteristics **Dimensions** $2.17(d) \times 0.6(w) \times 0.46(h)$ in. $(5.51 \times 1.52 \times 1$

1.17 cm)

full duplex 100Mb/s 0.04 lb. (0.02 kg) Full configuration weight solution for up to 10km on Electrical characteristics

Power consumption 0.8 W

typical

Power consumption 1.0 W

maximum

Cabling Cable length 10km

> Single Mode Fiber type

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 X125 1G SFP RJ45 T Ports 1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T)

Transceiver (JD089B) Connectivity Connector type **RJ-45**

Physical characteristics $2.71(d) \times 0.54(w) \times 0.55(h)$ in. $(6.88 \times 1.37 \times$ **Dimensions** A small form factor

1.4 cm)

Full configuration weight 0.07 lb. (0.03 kg)

Electrical characteristics Power consumption 0.8 W

typical

Power consumption

1.0 W

maximum

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:

• 100m

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.

Accessory Product Details

| HP X124 1G SFP LC SX Transceiver (JD493A) | Ports | 1 LC 1000BASE-SX port | |
|--|--------------------------|---------------------------|--|
| | Connectivity | Connector type | LC |
| JD493A HP X124 1G SFP LC SX Transceiver that | | Wavelength | 850 nm |
| | Physical characteristics | Dimensions | 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) |
| provides a full duplex Gigabit solution up to | | Full configuration weight | 1 |

Full configuration weight 0.04 lb. (0.02 kg) Electrical characteristics Power consumption 0.8 W

typical Power consumption 1.0 W

maximum Cabling Maximum distance:

• 220m-550m Fiber type

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

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

Multi Mode

1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)

office.

HP X125 1G SFP LC LH70 Transceiver (JD063B)

provides a full-duplex

Gigabit solution up to

fiber.

70km on a single-mode

550m on Multi Mode

fiber.

Connectivity Connector type LC Wavelength 1550 nm Physical characteristics **Dimensions** $2.17(d) \times 0.6(w) \times 0.46(h)$ in. $(5.51 \times 1.52 \times 1$ A small form-factor

Ports

1.17 cm) pluggable (SFP) Gigabit LH70 transceiver that Full configuration weight 0.04 lb. (0.02 kg)

> Electrical characteristics 0.8 W Power consumption

typical

Power consumption 1.0 W maximum

• 70km

Cabling Cable type: Single-mode fiber optic, complying with ITU-T G.652;

Maximum distance:

Fiber type Single Mode

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

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

office.

Accessory Product Details

HP X130 10G XFP CX4

Transceiver (JD506A) Cabling An XFP 10 Gigabit CX4

transceiver that provides full duplex 10G solution using CX4 cabling.

Ports

Connectivity

Services

1 CX4 10-GbE port; Duplex: full only

Connector type

Cable length 15m Max CX4 cables

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

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 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 ± 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

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: 0.454Kg

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

Notes

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

Cable Specs: Tight huffered 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: 0.454Kg

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 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

Services

Accessory Product Details

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

Notes

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

Cable Specs: Tight buffered dupley fibe

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

Services



Accessory Product Details

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

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 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.

- \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



Accessory Product Details

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.

- \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 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.

- 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 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.

- \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 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: $50 \text{um} \pm 3 \text{um}$, 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

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

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