

ProCurve Routing Switch 9300m Series

The ProCurve Routing Switch 9300m series delivers high-performance capabilities and investment protection for medium and large enterprise networks. By providing high-performance throughput from the wiring closet into the data center and out to the edge of the WAN, the non-blocking architecture of the ProCurve 9300m series enables network managers to build scalable and highly available network designs.



ProCurve Routing Switch
9304m (J4139A)



ProCurve Routing Switch
9308m (J4138A)



ProCurve Routing Switch
9315m (J4874A)

ProCurve Routing Switch 9300m Series

Features and benefits

Performance

- **Up to 345 million pps performance:** provides the high performance required by large networks
- **Jumbo frames:** on Gigabit/Enhanced Performance modules and 10-Gigabit/non-Enhanced Performance modules: ports allow high-performance remote backup and disaster recovery services
- **Hardware-based wire-speed access control lists:** feature-rich ACL implementation (selective ACL logging, scalability, and syntax compatibility) with enhanced editing capabilities helps ensure high levels of security and ease of administration without impacting network performance
- **Increased on-board memory and flash capacity (Enhanced Performance modules only):** enables more robust management scalability and capability

Connectivity

- **Superior port density (Enhanced Performance modules only):** provides enhanced system capabilities and overall investment protection
- **10-Gigabit Ethernet (10-GbE):** simplify data center configurations and increase backbone throughput

Resiliency and high availability

- **Port trunking:** for higher switch-to-switch throughput and link-level redundancy, with support for standards-based link aggregation (IEEE 802.3ad); supports up to 80 trunks, each with up to 8 links (ports) per trunk; trunking across modules is supported
- **Next-generation Spanning Tree functionality:** single-instance STP, Per VLAN Spanning Tree (PVST), Per VLAN Group STP (PVGST), and Rapid Spanning Tree Protocol (IEEE 802.1w) all provide improved availability and scalability for Spanning Tree-based networks
- **Optional redundant power supply:** provides

uninterrupted power for high availability

- **Hot-swappable chassis modules:** allow you to swap modules without interrupting the network
- **Automatic routing switch failover:** provides hot-standby redundancy using standards-based Virtual Router Redundancy Protocol (VRRP) or Standby Routing Protocol (SRP)
- **Optional redundant management:** provides automatic failover from the active management module to the standby management module for high availability

Security

- **Advanced access security:** protection against denial-of-service attacks; unauthorized network access and associated downtime are avoided using Secure Shell v2, Secure Sockets Layer (SSL), Secure Copy, wire-speed rate limiting, and user authentication (with AAA, RADIUS, and TACACS+)
- **Dynamic IP ACLs and MAC filters:** provide an additional level of security via dynamic port configuration to 802.1X ports, based on user profile information sent by the authentication server

Layer 2 switching

- **IP multicast snooping and data-driven IGMP:** provides IGMP to control multicast traffic in non-routed environments
- **Policy-based VLANs:** allow you to assign VLANs on a port, protocol, subnet, or IEEE 802.1Q tagged basis

Layer 3 routing

- **IP multicast routing:** provides DVMRP, PIM Dense, PIM sparse, and PIM snooping mode support in routed environments to control multicast traffic
- **IP/IPX/AppleTalk routing:** provides routing of IP and IPX at media speed

Quality of Service (QoS)

- **Layer 4 prioritization:** delivers QoS for delay-sensitive applications

Manageability

ProCurve Routing Switch 9300m Series

- **Full-featured console:** provides complete control of the switch with a familiar command-line interface (CLI)
- **Web interface:** allows you to configure the switch from any Web browser on the network

Monitor and diagnostics

- **sFlow (RFC 3176):** provides wire-speed traffic accounting and monitoring
- **Software updates:** free downloads from the Web
- **Port trunking:** for higher switch-to-switch and switch-to-server throughput and link-level

redundancy, with support for standards-based link aggregation (IEEE 802.3ad)

- **sFlow (RFC 3176) (Enhanced Performance modules only):** provides wire-speed traffic accounting and monitoring

Industry-leading warranty

- One-year next-business-day advance replacement (available in most countries), with extensions available

Services

ProCurve Routing Switch 9304m

- 3-year, parts only, global next-day advance exchange (UA120E)
- 3-year, 4-hour onsite, 13x5 coverage for hardware (H2887E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (H2888E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (U2865E)
- 1-year, post-warranty, parts only, global next-day advance exchange (H7639PE)
- 1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (H2738PE)
- 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (U2866PA/PE)
- 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UA423PE)
- Installation with minimum configuration, system-based pricing (U4829E)
- Installation with HP-provided configuration, system-based pricing (U4833E)

ProCurve Routing Switch 9308m

- 3-year, parts only, global next-day advance exchange (UA121E)
- 3-year, 4-hour onsite, 13x5 coverage for hardware (H2885E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (H2886E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (U2867E)
- 1-year, post-warranty, parts only, global next-day advance exchange (H7640PE)
- 1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (H2739PE)
- 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (U2868PA/PE)
- 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UA424PE)
- Installation with minimum configuration, system-based pricing (U4829E)
- Installation with HP-provided configuration, system-based pricing (U4833E)

ProCurve Routing Switch 9315m

- 3-year, parts only, global next-day advance exchange (UA121E)

ProCurve Routing Switch 9300m Series

- 3-year, 4-hour onsite, 13x5 coverage for hardware (H2885E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (H2886E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (U2867E)
- 1-year, post-warranty, parts only, global next-day advance exchange (H7640PE)
- 1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (H2739PE)
- 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (U2868PA/PE)
- 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UA424PE)
- Installation with minimum configuration, system-based pricing (U4829E)
- Installation with HP-provided configuration, system-based pricing (U4833E)

ProCurve Routing Switch 9300m Series



Specifications

	ProCurve Routing Switch 9304m (J4139A)	ProCurve Routing Switch 9308m (J4138A)	ProCurve Routing Switch 9315m (J4874A)
Included accessories	1 ProCurve 9304m/9308m Redundant Power Supply (J4147A)	2 ProCurve 9304m/9308m Redundant Power Supply (J4147A)	2 ProCurve 9315m Redundant Power Supply (J4875A)
Ports	4 open module slots Supports a maximum of 6 10-GbE ports, 144 10/100 ports or 56 Gigabit ports	8 open module slots Supports a maximum of 14 10-GbE ports, 336 10/100 ports or 120 Gigabit ports	15 open module slots Supports a maximum of 28 10-GbE ports, 672 10/100 ports or 232 Gigabit ports
Physical characteristics			
Dimensions	15.0(d) x 17.5(w) x 8.75(h) in. (38.1 x 44.45 x 22.23 cm) (5U height)	15.0(d) x 17.5(w) x 20.75(h) in. (38.1 x 44.45 x 52.71 cm) (12U height)	15.0(d) x 17.5(w) x 29.75(h) in. (38.1 x 44.45 x 75.57 cm) (17U height)
Weight	60 lb. (27.22 kg), fully loaded	117 lb. (53.07 kg), fully loaded	256 lb. (116.12 kg), fully loaded
Memory and processor			
EP management (J4885A)			
Packet buffer size	4 MB per module	4 MB per module	4 MB per module
Processor type and speed	Motorola PowerPC, 466 MHz	Motorola PowerPC, 466 MHz	Motorola PowerPC, 466 MHz
RAM/ROM capacity	512 MB per module	512 MB per module	512 MB per module
Flash capacity	16 MB	16 MB	16 MB
Mounting	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only
Performance			
Latency	<7 μ s (FIFO)	<7 μ s (FIFO)	<7 μ s (FIFO)
Throughput	83 million pps (64-byte packets)	178 million pps (64-byte packets)	345 million pps (64-byte packets)
Routing/switching capacity	128 Gbps	256 Gbps	480 Gbps
Routing table size	64,000 entries	64,000 entries	64,000 entries
Environment			
Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Operating relative humidity	5% to 90% @ 104°F (40°C), non-condensing	5% to 90% @ 104°F (40°C), non-condensing	5% to 90% @ 104°F (40°C), non-condensing
Non-operating/storage temperature	-13°F to 158°F (-25°C to 70°C)	-13°F to 158°F (-25°C to 70°C)	-13°F to 158°F (-25°C to 70°C)
Non-operating/storage relative humidity	0% to 95% @ 149°F (65°C), non-condensing	0% to 90% @ 149°F (65°C), non-condensing	0% to 90% @ 149°F (65°C), non-condensing
Shock and vibration	EN 60068 (IEC 68)	EN 60068 (IEC 68)	EN 60068 (IEC 68)
Electrical characteristics			
Maximum heat dissipation	1435 BTU/hr	2835 BTU/hr	5857 BTU/hr
Voltage	100-120 VAC/200-240 VAC	100-120 VAC/200-240 VAC	100-120 VAC/200-240 VAC
Current	8 A/4 A	8 A/4 A	17 A/8.5 A
Power consumption	420 W	830 W	1715 W
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Safety	CSA 950; EN 60950/IEC 60950; UL 1950	CSA 950; EN 60950/IEC 60950; UL 1950	CSA 950; EN 60950/IEC 60950; UL 1950

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Emissions	FCC Class A; EN55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN55022/CISPR-22 Class A; VCCI Class A
Immunity			
ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD	IEC 61000-4-2; 4 kV CD, 8 kV AD	IEC 61000-4-2; 4 kV CD, 8 kV AD
Radiated	IEC 61000-4-3; 3V/m	IEC 61000-4-3; 3V/m	IEC 61000-4-3; 3V/m
EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
Conducted	IEC 61000-4-6; 3V	IEC 61000-4-6; 3V	IEC 61000-4-6; 3V
Management	ProCurve Manager Plus; ProCurve Manager (included); 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	ProCurve Manager Plus; ProCurve Manager (included); 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	ProCurve Manager Plus; ProCurve Manager (included); 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB
Standards and protocols	IEEE 802.3x Flow Control; RFC 2236 IGMP v1/v2/v3; RFC 1583 OSPFv2; IEEE 802.1D Spanning Tree; SSHv1/SSHv2 Secure Shell; Secure Sockets Layer (SSL); IEEE 802.1Q VLANs; IEEE 802.1Q VLAN tagging; IEEE 802.1p Priority; SNMPv1/v2c/v3; RFC 1493 Bridge MIB; RFC 1075 DVMRP; PIM Dense, PIM sparse and PIM snooping mode; RFC 2338 VRRP; RFC 1058 RIP; RFC 1723 RIPv2; RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)	IEEE 802.3x Flow Control; RFC 2236 IGMP v1/v2/v3; RFC 1583 OSPFv2; IEEE 802.1D Spanning Tree; SSHv1/SSHv2 Secure Shell; Secure Sockets Layer (SSL); IEEE 802.1Q VLANs; IEEE 802.1Q VLAN tagging; IEEE 802.1p Priority; SNMPv1/v2c/v3; RFC 1493 Bridge MIB; RFC 1075 DVMRP; PIM Dense, PIM sparse and PIM snooping mode; RFC 2338 VRRP; RFC 1058 RIP; RFC 1723 RIPv2; RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)	IEEE 802.3x Flow Control; RFC 2236 IGMP v1/v2/v3; RFC 1583 OSPFv2; IEEE 802.1D Spanning Tree; SSHv1/SSHv2 Secure Shell; Secure Sockets Layer (SSL); IEEE 802.1Q VLANs; IEEE 802.1Q VLAN tagging; IEEE 802.1p Priority; SNMPv1/v2c/v3; RFC 1493 Bridge MIB; RFC 1075 DVMRP; PIM Dense, PIM sparse and PIM snooping mode; RFC 2338 VRRP; RFC 1058 RIP; RFC 1723 RIPv2; RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)

ProCurve Routing Switch 9300m Series

Accessories



ProCurve 9300 EP 24-Port 100Base-FX Module (J8178A)

with 24 100Base-FX ports

Ports

24 100Base-FX ports (IEEE 802.3u Type 100Base-FX)
Duplex: full

Physical characteristics

Dimensions: 16.0 (d) x 12.5 (w) x 1.0 (h) in.
(40.64 x 31.75 x 2.54 cm)
Weight: 3.0 lb. (1.35 kg)

Cabling

62.5/125 μm or 50/125 μm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively

Maximum distance

2 km

Notes

This module cannot be installed in the same chassis with non-EP modules except for the ProCurve 9300 2-Port 1-GbE Module (J8174A).

This module supports full duplex mode only.



ProCurve 9300 2-port 10-GbE Module (J8174A)

single-slot module provides two ports with 10-GbE connectivity

Ports

2 open 10-GbE XENPAK transceiver slots
Duplex: full

Physical characteristics

Dimensions: 16.0 (d) x 12.5 (w) x 1.0 (h) in.
(40.64 x 31.75 x 2.54 cm)
Weight: 5.2 lb. (2.34 kg)

Transceivers supported (ordered separately)

ProCurve 10-GbE XENPAK LR Optic

ProCurve 10-GbE XENPAK SR Optic

ProCurve 10-GbE XENPAK ER Optic

Notes

This module can be installed in the same chassis with either EP or non-EP modules. This module requires software version 07.6.04 or greater.



ProCurve 9300 EP 16-Port 100/1000-T Module (J4895A)

with 16 auto-sensing 100/1000 ports

Ports

16 auto-sensing 100/1000 ports (IEEE 802.3u Type 100Base-TX; IEEE 802.3ab Type 1000Base-T)
Duplex: Full or half (100 ports @ half duplex)
Connectors: RJ-45

Physical characteristics

Dimensions: 16.0 (d) x 12.5 (w) x 1.0 (h) in.
(40.64 x 31.75 x 2.54 cm)

Weight: 4.31 lb. (1.94 kg)

Cabling

100Base-TX: Category 5 (or better), 100 ohm differential unshielded twisted pair (UTP) or shielded twisted pair (STP), complying with IEEE 802.3u 100Base-TX
1000Base-T: Category 5 (5E or better recommended), 100 ohm differential 4-pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000Base-T

Notes

This module cannot be installed in the same chassis with non-EP modules except for the ProCurve 9300 2-Port 1-GbE Module (J8174A).

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ProCurve 9300 EP 16-port Mini-GBIC Module (J4894A)
with 16 open mini-GBIC slots

Ports
16 open mini-GBIC slots
Duplex: full

Physical characteristics
Dimensions: 16.0 (d) x 12.54 (w) x 1.0 (h)
in. (40.64 x 31.85 x 2.54 cm)
Weight: 4.31 lb. (1.94 kg)

Mini-GBICs supported (ordered separately)

ProCurve Gigabit-SX-LC Mini-GBIC
ProCurve Gigabit-LX-LC Mini-GBIC
ProCurve Gigabit-LH-LC Mini-GBIC
ProCurve Gigabit 1000Base-T Mini-GBIC

Notes

This module cannot be installed in the same chassis with non-EP modules except for the ProCurve 9300 2-Port 1-GbE Module (J8174A).



ProCurve 9300 EP 48-Port 10/100-TX Telco (RJ-21) Module (J4889B)
with 48 auto-sensing 10/100 ports

Ports
48 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX)
Duplex: full
Connectors: RJ-21

Physical characteristics
Dimensions: 16.0 (d) x 12.5 (w) x 1.0 (h) in. (40.64 x 31.75 x 2.54 cm)
Weight: 4.64 lb. (2.09 kg)

Cabling

10Base-T: Category 3 (or better) 100 ohm differential unshielded twisted pair (UTP) or shielded twisted pair (STP), complying with IEEE 802.3 Type 10Base-T
100Base-TX: Category 5 (or better), 100 ohm differential unshielded twisted pair (UTP) or shielded twisted pair (STP), complying with IEEE 802.3u 100Base-TX

Notes

This module cannot be installed in the same chassis with non-EP modules except for the ProCurve 9300 2-Port 1-GbE Module (J8174A).
Requires software version 07.8.00 or greater.
module supports full duplex mode only



ProCurve 9300 EP 8-Port Mini-GBIC Redundant Management Module (J4885A)
with 8 open mini-GBIC slots

Ports
8 open mini-GBIC slots
1 RS-232C DB-9 console port
Duplex: full

Physical characteristics
Dimensions: 16.0 (d) x 12.5 (w) x 1.0 (h) in. (40.64 x 31.75 x 2.54 cm)
Weight: 4.35 lb. (1.96 kg)

Mini-GBICs supported (ordered separately)

ProCurve Gigabit-SX-LC Mini-GBIC
ProCurve Gigabit-LX-LC Mini-GBIC
ProCurve Gigabit-LH-LC Mini-GBIC
ProCurve Gigabit 1000Base-T Mini-GBIC

Notes

This module cannot be installed in the same chassis with non-EP modules except for the ProCurve 9300 2-Port 1-GbE Module (J8174A).
Two modules are required for redundant configuration.

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ProCurve 9300 EP 48-Port 10/100-TX RJ-45 Module (J4881B)

with 48 auto-sensing 10/100 ports

Ports

48 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX)
Duplex: full
Connectors: RJ-45

Physical characteristics

Dimensions: 16.0 (d) x 12.5 (w) x 2.0 (h) in. (40.64 x 31.75 x 5.08 cm)
Weight: 5.2 lb. (2.34 kg)

Cabling

10Base-T: Category 3 (or better) 100 ohm differential unshielded twisted pair (UTP) or shielded twisted pair (STP), complying with IEEE 802.3 Type 10Base-T
100Base-TX: Category 5 (or better), 100 ohm differential unshielded twisted pair (UTP) or shielded twisted pair (STP), complying with IEEE 802.3u 100Base-TX

Notes

This module cannot be installed in the same chassis with non-EP modules except for the ProCurve 9300 2-Port 1-GbE Module (J8174A).
Requires software version 07.8.00 or greater.
This module occupies two chassis slots.
This module supports full duplex mode only.

ProCurve 9315m Redundant Power Supply (J4875A)

Physical characteristics

Dimensions: 15.5 (d) x 7.75 (w) x 4.4 (h) in. (39.37 x 19.68 x 11.18 cm)
Weight: 14.5 lb. (6.53 kg)

Electrical characteristics

Voltage: 100-120 VAC/200-240 VAC
Maximum current: 16 A

Notes

For additional RPS specification information, see the data sheet for the product in which the RPS is being installed.
This RPS is supported only in the J4874A ProCurve Routing Switch 9315m.
Switch 9315m includes 2 power supplies; supports max of 4.

- Adding one additional power supply (for total of 3) provides N+1 redundancy.
- Adding two additional power supplies (for total of 4) allows use of 2 separate power grids.

ProCurve 9304m/9308m Redundant Power Supply (J4147A)

Physical characteristics

Dimensions: 13.6 (d) x 7.3 (w) x 3.15 (h) in. (34.54 x 18.54 x 8 cm)
Weight: 8.15 lb. (3.67 kg)

Electrical characteristics

Voltage: 100-120 VAC/200-240 VAC
Maximum current: 8.0 A/4.0 A
Frequency range: 50/60 Hz

Notes

For additional RPS specification information, see the data sheet for the product in which the RPS is being installed.
This RPS is supported only in the following chassis:

- J4138A ProCurve Routing Switch 9308m
- J4139A ProCurve Routing Switch 9304m

Switch 9304m includes one power supply; supports max of 2.
Switch 9308m includes two power supplies; supports max of 4.

- Adding one additional power supply (for total of 3) provides N+1 redundancy.
- Adding two additional power supplies (for total of 4) allows use of 2 separate power grids.

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ProCurve Gigabit-LH-LC Mini-GBIC (J4860B)

with one 1000Base-LH port

Ports

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

Duplex: full

Connectors: LC

Physical characteristics

Dimensions: 2.167 (d) x 0.604 (w) x 0.463 (h) in. (5.5 x 1.53 x 1.18 cm)

Weight: 0.04 lb. (0.02 kg)

Cabling

Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1

Maximum distance

70 km



ProCurve Gigabit-LX-LC Mini-GBIC (J4859B)

with one 1000Base-LX port

Ports

1 1000Base-LX port (IEEE 802.3z Type 1000Base-LX)

Duplex: full

Connectors: LC

Physical characteristics

Dimensions: 2.24 (d) x 0.54 (w) x 0.486 (h) in. (5.69 x 1.37 x 1.23 cm)

Weight: 0.04 lb. (0.02 kg)

Cabling

Either single mode or multimode 62.5/125 μm or 50/125 μm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively

Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1

Maximum distance

10 km (single mode) or 550 m (multimode)

Notes

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



ProCurve Gigabit-SX-LC Mini-GBIC (J4858B)

with one 1000Base-SX port

Ports

1 1000Base-SX port (IEEE 802.3z Type 1000Base-SX)

Duplex: full

Connectors: LC

Physical characteristics

Dimensions: 2.24 (d) x 0.54 (w) x 0.486 (h) in. (5.69 x 1.37 x 1.23 cm)

Weight: 0.04 lb. (0.02 kg)

Cabling

62.5/125 μm or 50/125 μm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively

Maximum distance

220 m (62.5 μm core diameter, 160 MHz/km bandwidth)

275 m (62.5 μm core diameter, 200 MHz/km bandwidth)

500 m (50 μm core diameter, 400 MHz/km bandwidth)

550 m (50 μm core diameter, 500 MHz/km bandwidth)

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ProCurve Gigabit 1000Base-T Mini-GBIC (J8177B)
pluggable Gigabit transceiver (RJ-45) for up to 100 m over Cat 5 cable or better

Ports

Duplex: full
Connectors: RJ-45

Physical characteristics

Dimensions: 2.56 (d) x 0.55 (w) x 0.57 (h)
in. (6.5 x 1.4 x 1.46 cm)
Weight: 0.05 lb. (0.02 kg)

Cabling

1000Base-T: Category 5 (5E or better recommended), 100 ohm differential 4-pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000Base-T

Maximum distance

100 m

Notes

When used in the ProCurve Switch gl 10/100/1000 Module (J4908A), the J8177B mini-GBIC can be installed in either the upper or lower mini-GBIC port, but will block access to the other port.

Requires specific code version for support:

- For use with 9300 series modules, requires code 07.08.00a or greater
- For use with 8100 series modules, requires CY.01.02.0050 or greater
- For use with 5300 series modules, requires code E.09.11 or greater (excluding E.09.21)
- For use with 4100 series modules, requires code G.07.69 or greater

Not supported on dual-personality ports



ProCurve 10-GbE XENPAK ER Optic (J8176A)
XENPAK-based hot-pluggable optic. ER or 40 km distance.

Ports

1 10-Gigabit Ethernet port (IEEE 802.3ae Type 10Gbase-ER 1550 nm serial optics)
Duplex: full
Connectors: SC

Physical characteristics

Dimensions: 4.76 (d) x 1.42 (w) x 0.69 (h)
in. (12.09 x 3.61 x 1.75 cm)
Weight: 0.30 lb. (0.14 kg)

Cabling

Single-mode fiber optic, complying with ITU-T G.652; requires a minimum of 5 dB attenuation or a cable length of 10 km

Maximum distance

40 km

Notes

For use with ProCurve 9300 2-Port 10-GbE Module (J8174A) and 9400sl 4-port 10-GbE Module (J8682A) only.
Optic only - module sold separately.



ProCurve 10-GbE XENPAK SR Optic (J8175A)
XENPAK-based hot-pluggable optic. SR or 300 m distance.

Ports

1 10-Gigabit Ethernet port (IEEE 802.3ae Type 10Gbase-SR 850 nm serial optics)
Duplex: full
Connectors: SC

Physical characteristics

Dimensions: 4.76 (d) x 1.42 (w) x 0.69 (h)
in. (12.09 x 3.61 x 1.75 cm)
Weight: 0.30 lb. (0.14 kg)

Cabling

50/125 μm (core/cladding) diameter, multimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m
62.5/125 μm (core/cladding) diameter, multimode fiber optic, with effective modal bandwidth of 400 MHz/km as detailed in TIA-492AAAC for distances of up to 66 m
62.5/125 μm (core/cladding) diameter, multimode fiber optic, with effective modal bandwidth of 200 MHz/km as detailed in TIA-492AAAC for distances of up to 33 m

Maximum distance

300 m

Notes

For use with ProCurve 9300 2-Port 10-GbE Module (J8174A) and 9400sl 4-port 10-GbE Module (J8682A) only.
Optic only - module sold separately.

ProCurve Routing Switch 9300m Series



ProCurve 10-GbE XENPAK LR Optic (J8173A)

XENPAK-based hot-pluggable optic. LR or 10 km distance.

Ports

1 10-Gigabit Ethernet port (IEEE 802.3ae
Type 10Gbase-LR 1310 nm serial optics)
Duplex: full
Connectors: SC

Physical characteristics

Dimensions: 4.76 (d) x 1.42 (w) x 0.69 (h)
in. (12.1 x 3.6 x 1.74 cm)
Weight: 0.30 lb. (0.14 kg)

Cabling

Single-mode fiber optic, complying with
ITU-T G.652

Maximum distance

10 km

Notes

For use with ProCurve 9300 2-Port 10-GbE
Module (J8174A) and 9400sl 4-port 10-GbE
Module (J8682A) only.
Optic only - module sold separately.

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