## Overview

## Models

HP 2920-24G Switch J9726A
HP 2920-24G-PoE+ Switch J9727A
HP 2920-48G Switch J9728A
HP 2920-48G-PoE+ Switch J9729A
HP 2920-48G-PoE+740W Switch J9836A


## HP 2920-24G Switch

1. Power, Fault, and Locator LEDs
2. Console ports
3. LED Mode button and indicator LEDs
4. Status LEDs for components on the back of the switch
5. Stacking status LEDs
6. Switch port LEDs
7. PoE, Tmp (Temperature), Test, Fan, and Aux (Auxiliary) port status LED
8. Reset and Clear buttons
9. Aux port and Out-of-Band Management port
10. 10/100/1000BASE-T PoE+ RJ-45 ports
11. Dual-Personality (10/100/1000BASE-T or SFP) ports


## HP 2920-24G-PoE+ Switch

1. Power, Fault, and Locator LEDs
2. Console ports
3. LED Mode button and indicator LEDs
4. Status LEDs for components on the back of the switch
5. PoE, Tmp (Temperature), Test, Fan, and Aux (Auxiliary) port status LED
6. Reset and Clear buttons
7. Aux port and Out-of-Band Management port
8. 10/100/1000BASE-T PoE+ RJ-45 ports

HP 2920 Switch Series
Overview
5. Stacking status LEDs
6. Switch port LEDs
11. Dual-Personality ( $10 / 100 / 1000$ BASE-T or SFP) ports


## HP 2920-48G Switch

1. Power, Fault, and Locator LEDs
2. Console ports
3. LED Mode button and indicator LEDs
4. Status LEDs for components on the back of the switch
5. Stacking status LEDs
6. Switch port LEDs
7. PoE, Tmp (Temperature), Test, Fan, and Aux (Auxiliary) port status LED
8. Reset and Clear buttons
9. Aux port and Out-of-Band Management port
10. 10/100/1000BASE-T PoE+ RJ-45 ports
11. Dual-Personality ( $10 / 100 / 1000$ BASE-T or SFP) ports


HP 2920-48G-PoE+ Switch HP 2920-48G-PoE+ 740W Switch

1. Power, Fault, and Locator LEDs
2. Console ports
3. LED Mode button and indicator LEDs
4. Status LEDs for components on the back of the switch
5. Stacking status LEDs
6. Switch port LEDs
7. PoE, Tmp (Temperature), Test, Fan, and Aux (Auxiliary) port status LED
8. Reset and Clear buttons
9. Aux port and Out-of-Band Management port
10. 10/100/1000BASE-T PoE+ RJ-45 ports
11. Dual-Personality (10/100/1000BASE-T or SFP) ports

## Overview



## HP 2920 Switch Series Rear (All)

1. Grounding lug mounting hole
2. 10G Expansion Module slots
3. Stacking Module Slot
4. XPS Connector
5. Power Supply and AC power connector

## Product overview

The HP 2920 Switch Series consists of five switches: the HP 2920-24G and 2920-24G-PoE+ Switches with 24 10/100/1000 ports, and the HP 2920-48G and 2920-48G-PoE+ and 2920-48G 740W PoE+ Switches with 48 10/100/1000 ports. Each switch has four dualpersonality ports for 10/100/1000 or SFP connectivity.

In addition, the 2920 switch series supports up to four optional 10 Gigabit Ethernet (SFP+ and/or 10GBASE-T) ports, as well as a twoport stacking module. These options provide you with flexible and easy-to-deploy uplinks and stacking.

Together with static and RIP routing, robust security and management, enterprise-class features, free lifetime warranty, and free software updates, the 2920 switch series is a cost-effective, scalable solution for customers who are building high-performance networks. These switches can be deployed at the enterprise edge, in remote branch offices, and in converged networks.

## Key Features

- High-performance Gigabit Ethernet access switch
- Four optional 10GbE (SFP+ and/or 10GBASE-T) ports
- Stacking capability with a total of four switches
- Layer 2 and Layer 3 plus static and RIP routing, PoE, and PoE+ support
- Lifetime warranty, sFlow, ACLs, OpenFlow, and rate limiting


## Features and Benefits

Quality of Service (QoS)

- Traffic prioritization (IEEE 802.1p)
allows real-time traffic classification into eight priority levels mapped to eight queues
- Layer 4 prioritization
enables prioritization based on TCP/UDP port numbers
- 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 minimums


## Overview

- Large buffers
provide graceful congestion management


## Connectivity

- Flexible 10 Gbps Ethernet connectivity
up to four optional 10-Gigabit ports (SFP+ and/or 10GBASE-T)
- Two-port stacking module with up to $\mathbf{4 0} \mathbf{G b p s} / \mathrm{port}$
optional two-port stacking module allows stacking of up to four switch units into a single virtual device
- Auto-MDIX
automatically adjusts for straight-through or crossover cables on all 10/100 and 10/100/1000 ports
- IPv6
- IPv6 host
allows the switches to be managed and deployed at the edge of IPv6 networks
- Dual stack (IPv4/IPv6)
provides transition mechanism from IPv4 to IPv6; supports connectivity for both protocols
- MLD snooping
forwards IPv6 multicast traffic to the appropriate interface; prevents IPv6 multicast traffic from flooding the network
- IEEE 802.3at Power over Ethernet (PoE+)
provide up to 30 W per port that allows support of the latest PoE+-capable devices such as IP phones, wireless access points, and security cameras, as well as any IEEE 802.3af-compliant end device; eliminates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments
- Pre-standard PoE support
detects and provides power to pre-standard PoE devices
- 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


## Performance

- Energy-efficient design

O High-efficiency power supplies
80 PLUS Silver Certified power supply increases power savings

- Energy-efficient Ethernet (EEE) support
reduces power consumption in accordance with IEEE 802.3az
- HP ProVision ASIC architecture
is designed with the latest HP ProVision ASIC, providing very low latency, increased packet buffering, and adaptive power consumption
- Selectable queue configurations
allows for increased performance by selecting the number of queues and associated memory buffering that best meet the requirements of the network applications


## Software-defined networking

- NEW OpenFlow
supports OpenFlow 1.0 and 1.3 specifications to enable SDN by allowing separation of the data (packet forwarding) and control (routing decision) paths


## Convergence

- IP multicast snooping and data-driven IGMP
automatically prevent flooding of IP multicast traffic


## Overview

- LLDP-MED (Media Endpoint Discovery)
defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
is an automated device discovery protocol that provides easy mapping of network management applications
- PoE and PoE+ allocations
support multiple methods (automatic, IEEE 802.3at dynamic, LLDP-MED fine grain, IEEE 802.3af device class, or user specified) to allocate and manage PoE/PoE+ power for more efficient energy savings
- Local MAC Authentication
assigns attributes such as VLAN and QoS using locally configured profile that can be a list of MAC prefixes


## Resiliency and high availability

- IEEE 802.1s Multiple Spanning Tree
provides high link availability in multiple VLAN environments by allowing multiple spanning trees; provides legacy support for IEEE 802.1d and IEEE 802.1w
- IEEE 802.3ad Link Aggregation Control Protocol (LACP) and HP port trunking support up to 60 static, dynamic, or distributed trunks active across a stack, with each trunk having up to eight links (ports) per static trunk; support trunking across stack members
- Ring and chain stacking topology
allows failure of a link or switch in the ring of stacked switches, while the remaining connected switches continue operation
- New SmartLink
provides easy-to-configure link redundancy of active and standby links


## Management

- SNMPv1, v2, and v3
provide complete support of SNMP; provide full support of industry-standard Management Information Base (MIB) plus private extensions; SNMPv3 supports increased security using encryption
- Out-of-band Ethernet management port
enables management over a separate physical management network, keeping management traffic segmented from network data traffic


## Manageability

## - Dual flash images

provides independent primary and secondary operating system files for backup while upgrading

- Friendly port names
allow assignment of descriptive names to ports
- Find-Fix-Inform
finds and fixes common network problems automatically, then informs administrator
- Multiple configuration files
allow multiple configuration files to be stored to a flash image
- Software updates
free downloads from the Web
- RMON, XRMON, and sFlow
provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- Troubleshooting
ingress and egress port monitoring enable network problem solving
- Uni-Directional Link Detection (UDLD)
monitors a link between two switches and blocks the ports on both ends of the link if the link goes down at any point between


## Overview

the two devices.

## Layer 2 switching

- VLAN support and tagging
supports IEEE 802.1Q (4,094 VLAN IDs) and 256 VLANs simultaneously
- GARP VLAN Registration Protocol
allows automatic learning and dynamic assignment of VLANs
- Jumbo packet support
improves the performance of large data transfers; supports frame size of up to 9220 bytes
- IEEE 802.1v protocol VLANs
isolate select non-IPv4 protocols automatically into their own VLANs
- Rapid Per-VLAN Spanning Tree (RPVST+)
allows each VLAN to build a separate spanning tree to improve link bandwidth usage; is compatible with PVST+


## Layer 3 routing

## - Static IP routing

provides manually configured routing; includes ECMP capability

- Routing Information Protocol (RIP)
provides RIPv1 and RIPv2 routing
- 256 static and 2,048 RIP routes
facilitate segregation of user data without adding external hardware


## Security

- Multiple user authentication methods

O IEEE 802.1X
uses an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server to authenticate in accordance with industry standards
O Web-based authentication provides a browser-based environment, similar to IEEE 802.1X, to authenticate clients that do not support the IEEE 802.1X supplicant

○ MAC-based authentication authenticates the client with the RADIUS server based on the client's MAC address

- Authentication flexibility

○ Multiple IEEE 802.1X users per port provides authentication of multiple IEEE 802.1X users per port; prevents a user from "piggybacking" on another user's IEEE 802.1X authentication
○ Concurrent IEEE 802.1X, Web, and MAC authentication schemes per port switch port will accept up to 32 sessions of IEEE 802.1X, Web, and MAC authentications

- Access control lists (ACLs)
provide IP Layer 3 filtering based on source/destination IP address/subnet and source/destination TCP/UDP port number
- Source-port filtering
allows only specified ports to communicate with each other
- RADIUS/TACACS+
eases switch management security administration by using a password authentication server
- IEEE 802.1X, MAC or Web authentication
provides concurrent network access control and Web authentication of up to 24 clients per port
- Secure shell

HP 2920 Switch Series

## Overview

encrypts all transmitted data for secure remote CLI access over IP networks

- Secure Sockets Layer (SSL)
encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- 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
- 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
helps secure switch CLI logon by optionally requiring either RADIUS or TACACS+ authentication
- Custom banner
displays security policy when users log in to the switch
- STP BPDU port protection
blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
- 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
- Identity-driven ACL
enables implementation of a highly granular and flexible access security policy and VLAN assignment specific to each
authenticated network user
- Per-port broadcast throttling
selectively configures broadcast control on heavy traffic port uplinks


## Monitor and diagnostics

- Digital optical monitoring of SFP+ and 1000BASE-T transceivers
allows detailed monitoring of the transceiver settings and parameters


## Warranty and support

- Lifetime Warranty 2.0
advance hardware replacement for as long as you own the product with next-business-day delivery (available in most countries) $\dagger$
- Electronic and telephone support (for Lifetime Warranty 2.0):
limited $24 \times 7$ telephone support is available from HP for the first 3 years; limited electronic and business hours telephone support is available from HP for the entire warranty period; to reach our support centers, refer to:
www.hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to: www.hp.com/networking/warrantysummary
- Software releases
to find software for your product, refer to www.hp.com/networking/support; for details on the software releases available with your product purchase, refer to www.hp.com/networking/warrantysummary
$\dagger$ HP warranty includes repair or replacement of hardware for as long as you own the product, with next business day advance replacement (available in most countries). The disk drive included with HP AllianceOne Advanced Services and Services zl Modules, HP Threat Management Services zl Module, HP AllianceOne Extended zl Module with Riverbed Steelhead, HP MSM765zl Mobility Controller

HP 2920 Switch Series

## Overview

and HP Survivable Branch Communication zl Module powered by Microsoft ${ }^{\circledR}$ Lync has a five-year hardware warranty. For details, refer to the Software license and hardware warranty statements at www.hp.com/networking/warranty.

## Configuration

## Build To Order:

BTO is a standalone unit with no integration. BTO products ship standalone are not part of a CTO or Rack-Shippable solution.HP 2920-24G SwitchJ9726A- 24 RJ-45 autosensing 10/100/1000 ports- 4 dual-personality ports- min=0 \max=4 SFP Transceivers

- 1 - HP X331 165W 100-240VAC to 12VDC PS included
- 1U-HeightJ9726A\#B2B- C15 PDU Jumper Cord (NA/MEX/TW/JP)
PDU CABLE ROW ..... J9726A\#B2C
- C15 PDU Jumper Cord (ROW)
High Volt Switch to Wall Power Cord ..... J9726A\#B2E- NEMA L6-20P Cord (NA/MEX/JP/TW)
HP 2920-24G-POE+ Switch ..... J9727A
- 24 RJ-45 autosensing 10/100/1000 PoE+ ports- 4 dual-personality ports- min=0 $\backslash$ max $=4$ SFP TransceiversSeeConfiguration- 1 - HP X332 575W 100-240VAC to 54VDC PS included
- 1U-Height
PDU CABLE NA/MEX/TW/JPPDU CABLE NA/MEX/TW/JP ..... J9727A\#B2B- C15 PDU Jumper Cord (NA/MEX/TW/JP)
PDU CABLE ROW ..... J9727A\#B2C- C15 PDU Jumper Cord (ROW)
High Volt Switch to Wall Power CordJ9727A\#B2E
- NEMA L6-20P Cord (NA/MEX/JP/TW)
HP 2920-48G Switch ..... J9728A- 48 RJ-45 autosensing 10/100/1000 ports- 4 dual-personality portsSee- min=0 $\backslash$ max $=4$ SFP TransceiversConfiguration
- 1 - HP X331 165W 100-240VAC to 12VDC PS included
- 1U-HeightNote:1, 2PDU CABLE NA/MEX/TW/JPPDU CABLE NA/MEX/TW/JPJ9728A\#B2B- C15 PDU Jumper Cord (NA/MEX/TW/JP)


## Configuration

PDU CABLE ROW ..... J9728A\#B2C- C15 PDU Jumper Cord (ROW)
High Volt Switch to Wall Power Cord ..... J9728A\#B2E

- NEMA L6-2OP Cord (NA/MEX/JP/TW)
HP 2920-48G-POE+ Switch ..... J9729A
- 48 RJ-45 autosensing 10/100/1000 PoE+ ports ..... See- 4 dual-personality portsConfiguration- min=0 \max=4 SFP TransceiversNote:1, 2
- 1 - HP X332 575W 100-240VAC to 54VDC PS included
- 1U-Height
PDU CABLE NA/MEX/TW/JP ..... J9729A\#B2B- C15 PDU Jumper Cord (NA/MEX/TW/JP)
PDU CABLE ROW ..... J9729A\#B2C- C15 PDU Jumper Cord (ROW)
High Volt Switch to Wall Power Cord ..... J9729A\#B2E
- NEMA L6-2OP Cord (NA/MEX/JP/TW)
HP 2920-48G-POE+ 740W Switch ..... J9836A
- 44 RJ-45 autosensing 10/100/1000 PoE+ ports- 4 RJ-45 dual-personality $10 / 100 / 1000$ PoE+ ports- min=0 \max=4 SFP TransceiversConfigurationNote:1, 2- 1 - HP X332 1050W 110-240VAC to 54VDC PS included- 1U-Height
PDU CABLE NA/MEX/TW/JP ..... J9836A\#B2B- C15 PDU Jumper Cord (NA/MEX/TW/JP)
PDU CABLE ROW ..... J9836A\#B2C- C15 PDU Jumper Cord (ROW)
High Volt Switch to Wall Power Cord ..... J9836A\#B2E- NEMA L6-20P Cord (NA/MEX/JP/TW)
Configuration RulesThe following Transceivers install into this Module Switch:
Note 1 HP X121 G SFP LC LH Transceiver ..... J4860C
HP X121 1G SFP LC LX Transceiver ..... J4859C
HP X121 1G SFP LC SX Transceiver ..... J4858C
HP X122 1G SFP LC BX-D Transceiver ..... J9142B
HP X122 1G SFP LC BX-U Transceiver ..... J9143B

HP 2920 Switch Series

## Configuration

$$
\begin{array}{ll}
\text { HP X121 1G SFP RJ45 T Transceiver } & \text { J8177C } \\
\text { HP X111 100M SFP LC FX Transceiver } & \text { J9054C } \\
\text { HP X112 100M SFP LC BX-D Transceiver } & \text { J9099B } \\
\text { HP X112 100M SFP LC BX-U Transceiver } & \text { J9100B }
\end{array}
$$

Note 2 Localization required on orders without \#B2B, \#B2C or \#B2E options.

## Rack Level Integration CTO Models

```
HP 2920-24G Switch
J9726A\#0D1
```

- 24 RJ-45 autosensing 10/100/1000 ports
- 4 dual-personality ports 1
- min=0 \max=4 SFP Transceivers

See

- 1 - HP X331 165W 100-240VAC to 12VDC PS included
- 1U-Height

PDU CABLE NA/MEX/TW/JP
J9726A\#B2B

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW
J9726A\#B2C

- C15 PDU Jumper Cord (ROW)

HP 2920-24G-POE+ Switch
J9727A\#0D1

- 24 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 dual-personality ports
- min=0 \max=4 SFP Transceivers
- 1 - HP X332 575W 100-240VAC to 54VDC PS included
- 1U-Height

PDU CABLE NA/MEX/TW/JP
J9727A\#B2B

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW
J9727A\#B2C

- C15 PDU Jumper Cord (ROW)

HP 2920-48G Switch
J9728A\#0D1

- 48 RJ-45 autosensing 10/100/1000 ports
- 4 dual-personality ports
- min=0 $\backslash$ max=4 SFP Transceivers

See
Configuration
Note:1, 3, 4, 5

- 1 - HP X331 165W 100-240VAC to 12VDC PS included
- 1U-Height

PDU CABLE NA/MEX/TW/JP
J9728A\#B2B

- C15 PDU Jumper Cord (NA/MEX/TW/JP)


## Configuration

- C15 PDU Jumper Cord (ROW)
HP 2920-48G-POE+ Switch ..... J9729A\#OD1- 48 RJ-45 autosensing 10/100/1000 PoE+ ports- 4 dual-personality ports- min=0 $\backslash$ max=4 SFP TransceiversSeeConfiguration
- 1 - HP X332 575W 100-240VAC to 54VDC PS included
- 1U-Height
PDU CABLE NA/MEX/TW/JP ..... J9729A\#B2B- C15 PDU Jumper Cord (NA/MEX/TW/JP)
PDU CABLE ROW ..... J9729A\#B2C
- C15 PDU Jumper Cord (ROW)
HP 2920-48G-POE+ 740W Switch ..... J9836A- 44 RJ-45 autosensing $10 / 100 / 1000$ PoE+ ports- 4 RJ-45 dual-personality $10 / 100 / 1000$ PoE+ portsSee- min=0 $\backslash$ max $=4$ SFP Transceivers
- 1 - HP X332 1050W 110-240VAC to 54VDC PS included
- 1U-Height
PDU CABLE NA/MEX/TW/JP ..... J9836A\#B2B- C15 PDU Jumper Cord (NA/MEX/TW/JP)
PDU CABLE ROW ..... J9836A\#B2C- C15 PDU Jumper Cord (ROW)
Configuration Rules
Note 1
The following Transceivers install into this Module (Use \#OD1 quoted to switch if switch is CTO) - if applicable:
HP X121 1G SFP LC LH Transceiver ..... J4860C
HP X121 1G SFP LC LX Transceiver ..... J4859C
HP X121 1G SFP LC SX Transceiver ..... J4858C
HP X122 1G SFP LC BX-D Transceiver ..... J9142B
HP X122 1G SFP LC BX-U Transceiver ..... J9143B
HP X121 1G SFP RJ45 T Transceiver ..... J8177C
HP X111 100M SFP LC FX Transceiver ..... J9054C
HP X112 100M SFP LC BX-D Transceiver ..... J9099B
HP X112 100M SFP LC BX-U Transceiver ..... J9100B
Note 3 If this switch is factory installed in HP Racks, then the J9583A\#OD1 is required.CLIC Only - Allow the J9583AZ in all regions
Note 4 Localization required on orders without \#B2B or \#B2C options

HP 2920 Switch Series

## Configuration

| Note 5 | If HP CTO Switch Chassis is selected for Rack Level Integration, Then the CTO Switch Chassis needs to <br> integrate (with \#OD1) to the HP Rack. |
| :--- | :--- |
| Remarks | Drop down under power supply should offer the following options and results: <br> Switch/Router/Power Supply to PDU Power Cord - \#B2B in North America, Mexico, Taiwan, and Japan or \#B2C <br> ROW. (Watson Default B2B or B2C for Rack Level CTO) <br> Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level <br> CTO) |

## Internal Power Supplies

System (std 1 // max 1) per switch enclosure

HP X331 165W 100-240VAC to 12VDC PS
J9739A\#0D1

- includes $1 \times \mathrm{c} 15,165 \mathrm{w}$ (Spare Only)

See
Configuration Note:1, 3, 4

PDU CABLE NA/MEX/TW/JP
J9739A\#B2B

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW
J9739A\#B2C

- C15 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord
J9739A\#B2E

- NEMA L6-20P Cord (NA/MEX/JP/TW)

HP X332 575W 100-240VAC to 54VDC PS
J9738A\#0D1

- includes $1 \times \mathrm{c} 15,575 \mathrm{w}$ (Spare Only)

See
Configuration
Note:2, 3, 4

PDU CABLE NA/MEX/TW/JP
J9738A\#B2B

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW
J9738A\#B2C

- C15 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord
J9738A\#B2E

- NEMA L6-20P Cord (NA/MEX/JP/TW)

HP X332 1050W 100-240VAC to 54VDC PS
J9737A

- includes 1 x c15, 1050w (Spare or Upgrade Only)

See
Configuration Note:2, 3, 4

## Configuration

PDU CABLE NA/MEX/TW/JP J9737A\#B2B

- C15 PDU Jumper Cord (NA/MEX/TW/JP)
PDU CABLE ROW ..... J9737A\#B2C- C15 PDU Jumper Cord (ROW)
High Volt Switch to Wall Power Cord ..... J9737A\#B2E- NEMA L6-2OP Cord (NA/MEX/JP/TW)
Configuration Rules
Note 1 This power supply is only supported on the J9726A and J9728A.
Note 2 This power supply is only supported on the J9727A ,J9729A and J9836A.
Note 3 Localization required on orders without \#B2B , \#B2C or \#B2E options.
Note 4 If \#B2E is selected Then replace Localized option with \#B2E for power supply and with \#B2E for switch .(Offered only in NA, Mexico,, Taiwan, and Japan)
Remarks Drop down under power supply should offer the following options and results:
Switch/Router/Power Supply to PDU Power Cord - \#B2B in North America, Mexico, Taiwan, and Japan or \#B2C ROW. (Watson Default B2B or B2C for Rack Level CTO)
Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO)
High Volt Switch/Router/Power Supply to Wall Power Cord - \#B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)
X332 575W 100-240VAC to 54VDC PS, CL - Chile - English localization ..... J9738A\#A1X
Power Cord: Quantity :1, CEI 23-50, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,PartStore \#: 8120-6980
X332 575W 100-240VAC to 54VDC PS, US - U.S. - English localization ..... J9738A\#ABA
Power Cord: Quantity :1, NEMA 5-15P, C15 STRAIGHT, 125 V, 15 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-0973
X332 575 W 100-240VAC to 54VDC PS, EU - Europe - English localization ..... J9738A\#ABB
Power Cord: Quantity :1, CEE 7-VII, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6811
X332 575W 100-240VAC to 54VDC PS, AU - Australia - English localization ..... J9738A\#ABG
Power Cord: Quantity :1, AS/NZS 3112, C13 STRAIGHT, $250 \mathrm{~V}, 10 \mathrm{~A}, 2.3$ meters, 7.55 feet ,Part Store \#: 8121-0834
X332 575W 100-240VAC to 54VDC PS, BR - Brazil - Portuguese localization ..... J9738A\#AC4
Power Cord: Quantity :1, NBR 14136 Fig13, C13 STRAIGHT, 250 V, 2.5 A, 2.5 meters, 8.21feet ,Part Store \#: 8121-1069X332 575W 100-240VAC to 54VDC PS, KR - Korea - English localizationJ9738A\#AC6
Power Cord: Quantity :1, CEE 7-VII, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part
Store \#: 8120-6811

|  | J9738A\#ACC |
| :---: | :---: |
| Power Cord: Quantity :1, BS 1363/A, C13 STRAIGHT, $250 \mathrm{~V}, 10 \mathrm{~A}, 2.3$ meters, 7.55 feet ,Part |  |
| X332 575W 100-240VAC to 54VDC PS, SZ - Switzerland - English localiza | J9738A\#ACD |
| Power Cord: Quantity :1, SEV 6534-2 Type 12, C13 STRAIGHT, $250 \mathrm{~V}, 10 \mathrm{~A}, 2.25$ meters, 7.39 feet ,Part Store \#: 8120-6815 |  |
| X332 575W 100-240VAC to 54VDC PS, DK - Denmark - English localiz | J9738A\#ACE |
| Power Cord: Quantity :1, DK 2-5A, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6814 |  |
| X332 575W 100-240VAC to 54VDC PS, JP - Japan - English localization | J9738A\#ACF |
| Power Cord: Quantity :1, JIS C 8303, C13 STRAIGHT, 125 V, 12 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-4753 |  |
| X332 575W 100-240VAC to 54VDC PS, IN - India - English localization | J9738A\#ACJ |
| Power Cord: Quantity :1, IS 1293, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8121-0780 |  |
| X332 575W 100-240VAC to 54VDC PS, ZA - South Africa - English loca | J9738A\#ACQ |
| Power Cord: Quantity :1, SABS 164, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6813 |  |
| X332 575W 100-240VAC to 54VDC PS, IL - Israel - English localization | J9738A\#AKJ |
| Power Cord: Quantity :1, SI 32 90-DEG, C13 STRAIGHT, $250 \mathrm{~V}, 10 \mathrm{~A}, 2.5$ meters, 8.21 feet ,Part Store \#: 8121-1035 |  |
| X332 575W 100-240VAC to 54VDC PS, TH - Thailand - English localizatio | J9738A\#AKL |
| X332 575W 100-240VAC to 54VDC PS, CN - China - English localization | J9738A\#AKM |
| Power Cord: Quantity :1, GB 1002, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-8707 |  |
| X332 575W 100-240VAC to 54VDC PS, TW - Taiwan - English localization | J9738A\#ARB |
| Power Cord: Quantity :1, CNS 690 Type 2(1), C13 STRAIGHT, 125 V, 13 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-0974 |  |
| X332 575W 100-240VAC to 54VDC PS, MY - Malaysia - English localization | J9738A\#ARE |
| Power Cord: Quantity :1, BS 1363/A, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6809 |  |
| X332 575W 100-240VAC to 54VDC PS, AR - Argentina - English localization | J9738A\#ARM |
| Power Cord: Quantity :1, IRAM 2073, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6869 |  |
| X331 165W 100-240VAC to 12VDC PS, CL - Chile - English localization | J9739A\#A1X |
| Power Cord: Quantity :1, CEI 23-50, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6980 |  |
| X331 165W 100-240VAC to 12VDC PS, US - U.S. - English localization | J9739A\#ABA |
| Power Cord: Quantity :1, NEMA 5-15P, C15 STRAIGHT, 125 V, 15 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-0973 |  |
| X331 165W 100-240VAC to 12VDC PS, EU - Europe - English localization | J9739A\#ABB |
| Power Cord: Quantity :1, CEE 7-VII, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6811 |  |
| X331 165W 100-240VAC to 12VDC PS, AU - Australia - English localization | J9739A\#ABG |
| Power Cord: Quantity :1, AS/NZS 3112, C13 STRAIGHT, $250 \mathrm{~V}, 10 \mathrm{~A}, 2.3$ meters, 7.55 feet ,Part Store \#: 8121-0834 |  |
| X331 165W 100-240VAC to 12VDC PS, BR - Brazil - Portuguese localization | J9739A\#AC4 |

Power Cord: Quantity :1, BS 1363/A, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6809
X332 575W 100-240VAC to 54VDC PS, SZ - Switzerland - English localizationPower Cord: Quantity :1, SEV 6534-2 Type 12, C13 STRAIGHT, 250 V, 10 A, 2.25 meters,7.39 feet ,Part Store \#: 8120-6815X332 575W 100-240VAC to 54VDC PS, DK - Denmark - English localizationJ9738A\#ACEPower Cord: Quantity :1, DK 2-5A, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,PartStore \#: 8120-6814X332 575W 100-240VAC to 54VDC PS, JP - Japan - English localizationJ9738A\#ACFStore \#: 8120-4753Power Cord: Quantity :1, IS 1293, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,PartStore \#: 8121-0780X332 575W 100-240VAC to 54VDC PS, ZA - South Africa - English localizationJ9738A\#ACQStore \#: 8120-6813
ILJ9738A\#AKLJ9738A\#AKM
J9738A\#ARBJ9738A\#AREJ9738A\#ARMJ9739A\#A1XJ9739A\#ABB
J9739A\#AC4
Power Cord: Quantity :1, NBR 14136 Fig13, C13 STRAIGHT, 250 V, 2.5 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-1069
X331 165W 100-240VAC to 12VDC PS, KR - Korea - English localization J9739A\#AC6
Power Cord: Quantity :1, CEE 7-VII, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6811
X331 165W 100-240VAC to 12VDC PS, UK - United Kingdom - English localization
J9739A\#ACC
Power Cord: Quantity :1, BS 1363/A, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6809
X331 165W 100-240VAC to 12VDC PS, SZ - Switzerland - English localization
Power Cord: Quantity :1, SEV 6534-2 Type 12, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6815
X331 165W 100-240VAC to 12VDC PS, DK - Denmark - English localization
J9739A\#ACE
Power Cord: Quantity :1, DK 2-5A, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6814
X331 165W 100-240VAC to 12VDC PS, JP - Japan - English localization
Power Cord: Quantity :1, JIS C 8303, C13 STRAIGHT, 125 V, 12 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-4753
X331 165W 100-240VAC to 12VDC PS, IN - India - English localization
Power Cord: Quantity :1, IS 1293, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8121-0780
X331 165W 100-240VAC to 12VDC PS, ZA - South Africa - English localization
Power Cord: Quantity :1, SABS 164, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6813
X331 165W 100-240VAC to 12VDC PS, IL - Israel - English localization
Power Cord: Quantity :1, SI 32 90-DEG, C13 STRAIGHT, 250 V, $10 \mathrm{~A}, 2.5$ meters, 8.21 feet ,Part Store \#: 8121-1035
X331 165W 100-240VAC to 12VDC PS, TH - Thailand - English localization
Power Cord: Quantity :1, NEMA 5-15P, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8121-0668
X331 165W 100-240VAC to 12VDC PS, CN - China - English localization
Power Cord: Quantity :1, GB 1002, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-8707
X331 165W 100-240VAC to 12VDC PS, TW - Taiwan - English localization
Power Cord: Quantity :1, CNS 690 Type 2(1), C13 STRAIGHT, 125 V, 13 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-0974
X331 165W 100-240VAC to 12VDC PS, MY - Malaysia - English localization
J9739A\#ACQ
J9739A\#AKJ
Power Cord: Quantity :1, BS 1363/A, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6809
X331 165W 100-240VAC to 12VDC PS, AR - Argentina - English localization
J9739A\#ARM
Power Cord: Quantity :1, IRAM 2073, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6869
2920-24G Switch, CL - Chile - English localization
J9739A\#AKL
Power Cord: Quantity :1, CEI 23-50, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6980
2920-24G Switch, US - U.S. - English localization
J9739A\#ARB
J9739A\#AKM
J9739A\#ARE
Power Cord: Quantity :1, NEMA 5-15P, C15 STRAIGHT, 125 V, 15 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-0914

J9726A\#A1X

J9726A\#ABA
2920-24G Switch, EU - Europe - English localization J9726A\#ABB
Power Cord: Quantity :1, CEE 7-VII, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,PartStore \#: 8120-6811
2920-24G Switch, AU - Australia - English localizationJ9726A\#ABG
Power Cord: Quantity :1, AS/NZS 3112, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet,Part Store \#: 8121-0834
2920-24G Switch, BR - Brazil - Portuguese localizationJ9726A\#AC4
Power Cord: Quantity :1, NBR 14136 Fig13, C13 STRAIGHT, 250 V, 2.5 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-1069
2920-24G Switch, KR - Korea - English localization ..... J9726A\#AC6
Power Cord: Quantity :1, CEE 7-VII, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,PartStore \#: 8120-6811
2920-24G Switch, UK - United Kingdom - English localizationJ9726A\#ACC
Power Cord: Quantity :1, BS 1363/A, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6809
2920-24G Switch, SZ - Switzerland - English localization J9726A\#ACD
Power Cord: Quantity :1, SEV 6534-2 Type 12, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6815
2920-24G Switch, DK - Denmark - English localization ..... J9726A\#ACE
Power Cord: Quantity :1, DK 2-5A, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,PartStore \#: 8120-68142920-24G Switch, JP - Japan - English localizationJ9726A\#ACF
Power Cord: Quantity :1, JIS C 8303, C13 STRAIGHT, 125 V, 12 A, 2.3 meters, 7.55 feet ,PartStore \#: 8120-4753
2920-24G Switch, IN - India - English localizationJ9726A\#ACJ
Power Cord: Quantity :1, IS 1293, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,PartStore \#: 8121-0780
2920-24G Switch, ZA - South Africa - English localizationJ9726A\#ACQ
Power Cord: Quantity :1, SABS 164, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6813
2920-24G Switch, IL - Israel - English localization ..... J9726A\#AKJ
Power Cord: Quantity :1, SI 32 90-DEG, C13 STRAIGHT, 250 V, 10 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-1035
2920-24G Switch, TH - Thailand - English localization ..... J9726A\#AKL
Power Cord: Quantity :1, NEMA 5-15P, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8121-0668
2920-24G Switch, CN - China - English localization ..... J9726A\#AKM
Power Cord: Quantity :1, GB 1002, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,PartStore \#: 8120-8707
2920-24G Switch, TW - Taiwan - English localizationJ9726A\#ARB
Power Cord: Quantity :1, CNS 690 Type 2(1), C13 STRAIGHT, 125 V, 13 A, 2.5 meters, 8.21feet ,Part Store \#: 8121-09742920-24G Switch, MY - Malaysia - English localizationJ9726A\#AREPower Cord: Quantity :1, BS 1363/A, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,PartStore \#: 8120-68092920-24G Switch, AR - Argentina - English localizationJ9726A\#ARM
Power Cord: Quantity :1, IRAM 2073, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,PartStore \#: 8120-68692920-24G Switch, JmpCbl-NA/JP/TW - JmpCbl-NA/JP/TWJ9726A\#B2B
Power Cord: Quantity :1, C14 STRAIGHT, C15 STRAIGHT, 250 V, $10 \mathrm{~A}, 2.5$ meters, 8.21 feet,Part Store \#: 8121-1091
2920-24G Switch, JmpCbl-ROW - JmpCbl-ROWJ9726A\#B2C
Power Cord: Quantity :1, C14 STRAIGHT, C15 STRAIGHT, 250 V, 10 A, 2.5 meters, 8.21 feet,Part Store \#: 8121-1094
2920-24G Switch, 220V-NA - L6-20 220V-NAJ9726A\#B2E
Power Cord: Quantity :1, NEMA 6-15P, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-3996
2920-24G-P0E+ Switch, CL - Chile - English localization ..... J9727A\#A1X
Power Cord: Quantity :1, CEI 23-50, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part
Power Cord: Quantity :1, CEI 23-50, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,PartStore \#: 8120-6980
2920-24G-P0E+ Switch, US - U.S. - English localizationJ9727A\#ABA
Power Cord: Quantity :1, NEMA 5-15P, C15 STRAIGHT, 125 V, 15 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-0914
2920-24G-POE+ Switch, EU - Europe - English localization ..... J9727A\#ABB
Power Cord: Quantity :1, CEE 7-VII, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,PartStore \#: 8120-6811
2920-24G-POE+ Switch, AU - Australia - English localizationJ9727A\#ABG
Power Cord: Quantity :1, AS/NZS 3112, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8121-0834
2920-24G-POE+ Switch, BR - Brazil - Portuguese localization ..... J9727A\#AC4
Power Cord: Quantity :1, NBR 14136 Fig13, C13 STRAIGHT, 250 V, 2.5 A, 2.5 meters, 8.21feet ,Part Store \#: 8121-1069
2920-24G-POE+ Switch, KR - Korea - English localizationJ9727A\#AC6
Power Cord: Quantity :1, CEE 7-VII, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6811
2920-24G-P0E+ Switch, UK - United Kingdom - English localization ..... J9727A\#ACC
Power Cord: Quantity :1, BS 1363/A, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6809
2920-24G-POE+ Switch, SZ - Switzerland - English localization ..... J9727A\#ACD
Power Cord: Quantity :1, SEV 6534-2 Type 12, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6815
2920-24G-POE+ Switch, DK - Denmark - English localization J9727A\#ACE
Power Cord: Quantity :1, DK 2-5A, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,PartStore \#: 8120-6814
2920-24G-P0E+ Switch, JP - Japan - English localizationJ9727A\#ACF
Power Cord: Quantity :1, JIS C 8303, C13 STRAIGHT, 125 V, 12 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-47532920-24G-POE+ Switch, IN - India - English localizationJ9727A\#ACJ
Power Cord: Quantity :1, IS 1293, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8121-0780
Power Cord: Quantity :1, SABS 164, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part ..... J9727A\#ACQ Store \#: 8120-68132920-24G-POE+ Switch, IL - Israel - English localizationJ9727A\#AKJ
Power Cord: Quantity :1, SI 32 90-DEG, C13 STRAIGHT, 250 V, 10 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-1035
2920-24G-POE+ Switch, TH - Thailand - English localization
J9727A\#AKL
Power Cord: Quantity :1, NEMA 5-15P, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8121-0668
2920-24G-POE+ Switch, CN - China - English localization
J9727A\#AKM
Power Cord: Quantity :1, GB 1002, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-8707
2920-24G-POE+ Switch, TW - Taiwan - English localization
Power Cord: Quantity :1, CNS 690 Type 2(1), C13 STRAIGHT, 125 V, 13 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-0974
2920-24G-P0E+ Switch, MY - Malaysia - English localization J9727A\#ARE
Power Cord: Quantity :1, BS 1363/A, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6809
2920-24G-POE+ Switch, AR - Argentina - English localization
Power Cord: Quantity :1, IRAM 2073, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6869
2920-24G-POE+ Switch, JmpCbl-NA/JP/TW - JmpCbl-NA/JP/TW
J9727A\#B2B
Power Cord: Quantity :1, C14 STRAIGHT, C15 STRAIGHT, $250 \mathrm{~V}, 10 \mathrm{~A}, 2.5$ meters, 8.21 feet ,Part Store \#: 8121-1091
2920-24G-POE+ Switch, JmpCbl-ROW - JmpCbl-ROW
J9727A\#B2C
Power Cord: Quantity :1, C14 STRAIGHT, C15 STRAIGHT, $250 \mathrm{~V}, 10 \mathrm{~A}, 2.5$ meters, 8.21 feet ,Part Store \#: 8121-1094
2920-24G-POE+ Switch, 220V-NA - L6-20 220V-NA
Power Cord: Quantity :1, NEMA 6-15P, C15 STRAIGHT, 250 V, 10 A, 2.5 meters, 8.21 feet ,Part Store \#: 8120-5338
2920-48G Switch, CL - Chile - English localization
J9728A\#A1X
Power Cord: Quantity :1, CEI 23-50, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6980
2920-48G Switch, US - U.S. - English localization
Power Cord: Quantity :1, NEMA 5-15P, C15 STRAIGHT, 125 V, 15 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-0914
2920-48G Switch, EU - Europe - English localization
J9728A\#ABB
Power Cord: Quantity :1, CEE 7-VII, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6811
2920-48G Switch, AU - Australia - English localization
Power Cord: Quantity :1, AS/NZS 3112, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8121-0834
2920-48G Switch, BR - Brazil - Portuguese localization
Power Cord: Quantity :1, NBR 14136 Fig13, C13 STRAIGHT, 250 V, 2.5 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-1069
2920-48G Switch, KR - Korea - English localization
J9728A\#AC6
Power Cord: Quantity :1, CEE 7-VII, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6811
2920-48G Switch, UK - United Kingdom - English localization J9728A\#ACC
Power Cord: Quantity :1, BS 1363/A, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6809
2920-48G Switch, SZ - Switzerland - English localization ..... J9728A\#ACDPower Cord: Quantity :1, SEV 6534-2 Type 12, C13 STRAIGHT, 250 V, 10 A, 2.25 meters,7.39 feet ,Part Store \#: 8120-6815
2920-48G Switch, DK - Denmark - English localizationJ9728A\#ACE
Power Cord: Quantity :1, DK 2-5A, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,PartStore \#: 8120-6814
2920-48G Switch, JP - Japan - English localizationJ9728A\#ACF
Power Cord: Quantity :1, JIS C 8303, C13 STRAIGHT, 125 V, 12 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-4753
2920-48G Switch, IN - India - English localization J9728A\#ACJ
Power Cord: Quantity :1, IS 1293, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,PartStore \#: 8121-0780
2920-48G Switch, ZA - South Africa - English localizationJ9728A\#ACQ
Power Cord: Quantity :1, SABS 164, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6813
2920-48G Switch, IL - Israel - English localization ..... J9728A\#AKJ
Power Cord: Quantity :1, SI 32 90-DEG, C13 STRAIGHT, 250 V, 10 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-1035
2920-48G Switch, TH - Thailand - English localization ..... J9728A\#AKL
Power Cord: Quantity :1, NEMA 5-15P, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8121-0668
2920-48G Switch, CN - China - English localization J9728A\#AKM
Power Cord: Quantity :1, GB 1002, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-8707
2920-48G Switch, TW - Taiwan - English localization ..... J9728A\#ARB
Power Cord: Quantity :1, CNS 690 Type 2(1), C13 STRAIGHT, 125 V, 13 A, 2.5 meters, 8.21
feet ,Part Store \#: 8121-0974
2920-48G Switch, MY - Malaysia - English localizationJ9728A\#ARE
Power Cord: Quantity :1, BS 1363/A, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6809
2920-48G Switch, AR - Argentina - English localization ..... J9728A\#ARM
Power Cord: Quantity :1, IRAM 2073, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,PartStore \#: 8120-6869
2920-48G Switch, JmpCbl-NA/JP/TW - JmpCbl-NA/JP/TWJ9728A\#B2B
Power Cord: Quantity :1, C14 STRAIGHT, C15 STRAIGHT, 250 V, 10 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-1091
2920-48G Switch, JmpCbl-ROW - JmpCbl-ROW ..... J9728A\#B2C
Power Cord: Quantity :1, C14 STRAIGHT, C15 STRAIGHT, $250 \mathrm{~V}, 10 \mathrm{~A}, 2.5$ meters, 8.21 feet,Part Store \#: 8121-10942920-48G Switch, 220V-NA - L6-20 220V-NAJ9728A\#B2EPower Cord: Quantity :1, NEMA 6-15P, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet,Part Store \#: 8120-39962920-48G-POE+ Switch, CL - Chile - English localizationJ9729A\#A1X
Power Cord: Quantity :1, CEI 23-50, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6980
2920-48G-POE+ Switch, US - U.S. - English localization ..... J9729A\#ABA

| Power Cord: Quantity :1, NEMA 5-15P, C15 STRAIGHT, 125 V, 15 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-0914 |  |
| :---: | :---: |
| 2920-48G-POE+ Switch, EU - Europe - English localization | J9729A\#ABB |
| Power Cord: Quantity :1, CEE 7-VII, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6811 |  |
| 2920-48G-POE+ Switch, AU - Australia - English localization | J9729A\#ABG |
| Power Cord: Quantity :1, AS/NZS 3112, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8121-0834 |  |
| 2920-48G-POE+ Switch, BR - Brazil - Portuguese localization | J9729A\#AC4 |
| Power Cord: Quantity :1, NBR 14136 Fig13, C13 STRAIGHT, 250 V, 2.5 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-1069 |  |
| 2920-48G-POE+ Switch, KR - Korea - English localization | J9729A\#AC6 |
| Power Cord: Quantity :1, CEE 7-VII, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6811 |  |
| 2920-48G-P0E+ Switch, UK - United Kingdom - English localization | J9729A\#ACC |
| Power Cord: Quantity :1, BS 1363/A, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6809 |  |
| 2920-48G-P0E+ Switch, SZ - Switzerland - English localization | J9729A\#ACD |
| Power Cord: Quantity :1, SEV 6534-2 Type 12, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6815 |  |
| 2920-48G-POE+ Switch, DK - Denmark - English localization | J9729A\#ACE |
| Power Cord: Quantity :1, DK 2-5A, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6814 |  |
| 2920-48G-P0E+ Switch, JP - Japan - English localization | J9729A\#ACF |
| Power Cord: Quantity :1, JIS C 8303, C13 STRAIGHT, 125 V, 12 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-4753 |  |

2920-48G-P0E+ Switch, IN - India - English localization
Power Cord: Quantity :1, IS 1293, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8121-0780
2920-48G-POE+ Switch, ZA - South Africa - English localization
Power Cord: Quantity :1, SABS 164, C13 STRAIGHT, 250 V, 10 A, 2.25 meters, 7.39 feet ,Part Store \#: 8120-6813
2920-48G-POE+ Switch, IL - Israel - English localization
Power Cord: Quantity :1, SI 32 90-DEG, C13 STRAIGHT, 250 V, 10 A, 2.5 meters, 8.21 feet ,Part Store \#: 8121-1035
2920-48G-POE+ Switch, TH - Thailand - English localization
Power Cord: Quantity :1, NEMA 5-15P, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8121-0668
2920-48G-P0E+ Switch, CN - China - English localization
Power Cord: Quantity :1, GB 1002, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-8707
2920-48G-POE+ Switch, TW - Taiwan - English localization
Power Cord: Quantity :1, CNS 690 Type 2(1), C13 STRAIGHT, 125 V, 13 A, 2.5 meters, 8.21
feet ,Part Store \#: 8121-0974
Power Cord: Quantity :1, BS 1363/A, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part J9729A\#ARE Store \#: 8120-6809
2920-48G-POE+ Switch, AR - Argentina - English localization

J9729A\#ACJ

J9729A\#ACQ

J9729A\#AKJ

J9729A\#AKL

J9729A\#AKM

J9729A\#ARB

J9729A\#ARM

## Configuration

Power Cord: Quantity :1, IRAM 2073, C13 STRAIGHT, 250 V, 10 A, 2.3 meters, 7.55 feet ,Part Store \#: 8120-6869<br>2920-48G-POE+ Switch, JmpCbl-NA/JP/TW - JmpCbl-NA/JP/TW<br>J9729A\#B2B<br>Power Cord: Quantity :1, C14 STRAIGHT, C15 STRAIGHT, $250 \mathrm{~V}, 10 \mathrm{~A}, 2.5$ meters, 8.21 feet ,Part Store \#: 8121-1091<br>2920-48G-POE+ Switch, JmpCbl-ROW - JmpCbl-ROW<br>J9729A\#B2C<br>Power Cord: Quantity :1, C14 STRAIGHT, C15 STRAIGHT, $250 \mathrm{~V}, 10 \mathrm{~A}, 2.5$ meters, 8.21 feet ,Part Store \#: 8121-1094<br>2920-48G-POE+ Switch, 220V-NA - L6-20 220V-NA<br>J9729A\#B2E<br>Power Cord: Quantity :1, NEMA 6-15P, C15 STRAIGHT, 250 V, 10 A, 2.5 meters, 8.21 feet ,Part Store \#: 8120-5338

Enter the following menu selections as integrated to the CTO Model $\mathbf{X}$ server above if order is factory built

## Networking

## Ethernet Modules

System (std $0 / /$ max 2) User Selection (min $0 / / \max 2$ 2) per enclosure
HP 2920 2-port 10GbE SFP+ Module J9731A

- min=0 max $^{2}$ SFP + Transceivers

Configuration Rules
Note 1
HP X121 1G SFP LC LH Transceiver
J4860C
HP X121 1G SFP LC LX Transceiver J4859C
HP X121 1G SFP LC SX Transceiver J4858C
HP X122 1G SFP LC BX-D Transceiver J9142B
HP X122 1G SFP LC BX-U Transceiver J9143B
HP X132 10G SFP+ LC SR Transceiver J9150A
HP X132 10G SFP+ LC ER Transceiver J9153A
HP X132 10G SFP+ LC LR Transceiver J9151A
HP X132 10G SFP+ LC LRM Transceiver J9152A
HP X242 SFP+ SFP+ 1m Direct Attach Cable J9281B
HP X242 SFP+ SFP+ 3m Direct Attach Cable J9283B
HP X242 SFP+ SFP+ 7m Direct Attach Cable J9285B
HP X244 XFP SFP+ 1m Direct Attach Cable J9300A
HP X244 XFP SFP+ 3m Direct Attach Cable J9301A
HP X244 XFP SFP+5m Direct Attach Cable J9302A
HP X242 10G SFP+ 10m DAC Cable J9286B

## Configuration

## Stacking Modules

System (std 0 // max 1) User Selection (min 0 // max 1) per enclosure

HP 2920 2-port Stacking Module J9733A

## Transceivers

## SFP Transceivers

HP X121 1G SFP LC LH Transceiver J4860C
HP X121 1G SFP LC LX Transceiver J4859C
HP X121 1G SFP LC SX Transceiver J4858C
HP X122 1G SFP LC BX-D Transceiver J9142B
HP X122 1G SFP LC BX-U Transceiver J9143B
HP X121 1G SFP RJ45 T Transceiver J8177C
HP X111 100M SFP LC FX Transceiver J9054C
HP X112 100M SFP LC BX-D Transceiver J9099B
HP X112 100M SFP LC BX-U Transceiver J9100B

SFP+ Transceivers

HP X132 10G SFP+ LC ER Transceiver J9153A
HP X132 10G SFP+ LC SR Transceiver J9150A
HP X132 10G SFP+ LC LR Transceiver J9151A
HP X132 10G SFP+ LC LRM Transceiver J9152A
HP X242 10G SFP+ SFP+ 1m DAC Cable J9281B
HP X242 10G SFP+ SFP+ 3m DAC Cable J9283B
HP X242 10G SFP+ SFP+ 7m DAC Cable J9285B
HP X244 10G XFP SFP+ 1m DAC Cable J9300A
HP X244 10G XFP SFP+ 3m DAC Cable J9301A
HP X244 10G XFP SFP+ 5m DAC Cable J9302A
HP X242 10G SFP+ 10m DAC Cable J9286B
HP X242 10G SFP+ 15m DAC Cable J9287B

## Cables

Multi-Mode Cables

HP .5m Multi-mode OM3 LC/LC FC Cable AJ833A
HP 1m Multi-mode OM3 LC/LC FC Cable AJ834A
HP 2 m Multimode OM3 LC/LC FC Cable AJ835A

## Configuration

HP 5 m Multimode OM3 LC/LC FC Cable ..... AJ836A
HP 15 m Multimode OM3 LC/LC FC Cable ..... AJ837A
HP 30 m Multimode OM3 LC/LC FC Cable ..... AJ838A
HP 50 m Multimode OM3 LC/LC FC Cable ..... AJ839A
HP Premier Flex LC/LC OM4 2f 1m Cbl ..... QK732A
HP Premier Flex LC/LC OM4 2f 2m Cbl ..... QK733A
HP Premier Flex LC/LC OM4 2f 5m Cbl ..... QK734A
HP Premier Flex LC/LC OM4 2f 15m Cbl ..... QK735A
HP Premier Flex LC/LC OM4 2f 30m Cbl ..... QK736A
HP Premier Flex LC/LC OM4 2f 50m Cbl ..... QK737A
Stacking Cables
HP 2920 0.5m Stacking Cable ..... J9734A
HP 2920 1.0m Stacking Cable ..... J9735A
HP 2920 3.0m Stacking Cable ..... J9736A

## Switch Enclosure Options

## Mounting Kit

| HP X410 1U Univ 4-post Rack Mnt Kit | J9583A |
| :--- | :---: |
|  | See Configuration |
| Note:1 |  |

Note 1 If this Mounting Kit is order with \#0D1 then it integrates to the HP Universal Rack. (not the switch)
External/Redundant Power Supplies

HP 640 External/Redundant Power Supply
J9805A

- Height = 1 U

See Configuration

- includes $1 \times \mathrm{c} 13,800 \mathrm{w}$

Note:1, 3, 4, 5

HP X331 165W 100-240VAC to 12VDC PS
J9739A

- includes $1 \times c 15,165 w$


## PDU CABLE NA/MEX/TW/JP

J9739A\#B2B

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW
J9739A\#B2C

- C15 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord
J9739A\#B2E

## Configuration

- NEMA L6-2OP Cord (NA/MEX/JP/TW)
HP X332 575W 100-240VAC to 54VDC PS ..... J9738A- includes $1 \times \mathrm{c} 15,575 \mathrm{w}$See Configuration
PDU CABLE NA/MEX/TW/JPJ9738A\#B2B- C15 PDU Jumper Cord (NA/MEX/TW/JP)
PDU CABLE ROW ..... J9738A\#B2C- C15 PDU Jumper Cord (ROW)
High Volt Switch to Wall Power Cord ..... J9738A\#B2E
- NEMA L6-20P Cord (NA/MEX/JP/TW)
HP X332 1050W 100-240VAC to 54VDC PS ..... J9737A
- includes $1 \times \mathrm{c} 15,1050 \mathrm{w}$ See ConfigurationNote:2
PDU CABLE NA/MEX/TW/JPJ9737A\#B2B- C15 PDU Jumper Cord (NA/MEX/TW/JP)
PDU CABLE ROW ..... J9737A\#B2C
- C15 PDU Jumper Cord (ROW)
High Volt Switch to Wall Power Cord ..... J9737A\#B2E
- NEMA L6-2OP Cord (NA/MEX/JP/TW)
Configuration Rules
Note 1 Can take up to Three internal power supplies. (J9737A, J9738A and J9739A) System (std 0 // max 3) User Selection ( $\min 1 / /$ max 3) per Power Supply enclosure. Mixing or matching of the 3 different power supplies is supported in the Chassis.
Note 2 Localization required on orders without \#B2B, \#B2C or \#B2E options.
Note 3 No Localization. Localization is on the internal Power supplies.
Note $4 \quad$ Up to eight (8) Switch Chassis can be connected to this External Redundant Power Source.
Power supply slot 1 supports up to 4 cables
Power supply slot 2 supports up to 2 cables
Power supply slot 3 supports up to 2 cables
Supported on J9726A, J9727A, J9728A, J9729A and J9836A switches only.
Note 5 If this RPS/EPS is installed in HP Universal Racks, Then the J9583A\#OD1 is required


## Configuration

Remarks: For J9726A, and J9728A, the power supply in J9805A must be J9739A (165W).
For J9727A and J9729A, the power supply in J9805A must be J9737A (1050W) or J9738A (575W).
For J9836A, the power supply in J9805A must be J9737A (1050W).
Drop down under power supply should offer the following options and results:
Switch/Router/Power Supply to PDU Power Cord - \#B2B in North America, Mexico, Taiwan, and Japan or \#B2C ROW. (Watson Default B2B or B2C for Rack Level CTO)
Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO)
High Volt Switch/Router/Power Supply to Wall Power Cord - \#B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)

## External/Redundant Power Cables

HP 640 EPS/RPS 1m Cable

Configuration Rules

Note $1 \quad 1,2,3$ or 4 cables per AC Power Supply used with J9805A supported. System (std 0 // max 8) User Selection (min $1 / / \max 8$ ) per Power Supply enclosure.
Power supply slot 1 supports up to 4 cables
Power supply slot 2 supports up to 2 cables
Power supply slot 3 supports up to 2 cables

## Technical Specifications



HP 2920 Switch Series

## Technical Specifications

| Safety | CE Labeled; EN 60825-1 Safety of Laser Products-Part 1; FCC Part 15, Subpart B; GOST; EU RoHS <br> Compliant; EN 55022 Class A; EN 55024: 1998; C-Tick; ICES-003, Class A; VCCI Class A; IEC 60950-1 :Second Edition ; IEC 60825-1; EN62479:2010; CSA C22.2 No. 60950-1-07 2nd Edition; EN 60950- <br> 1:2006+A11:2009+A1:2010+A12:2011; IEC 60950-1 (ed.2): am1 |
| :---: | :---: |
| Emissions | FCC part 15 Class A; VCCI Class A; EN 55022/CISPR 22 Class A |
| 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 interruptions $\quad$ IEC 61000-4-11 |
|  | Harmonics IEC 61000-3-2 |
|  | Flicker IEC 61000-3-3 |
| Management | HP PCM+; IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (RJ-45 Ethernet); SNMP Manager; Telnet; RMON1; FTP; in-line and out-of-band; out-of-band management (serial RS-232C or Micro USB) |
| 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. |



## Technical Specifications

|  | 10 Gbps Latency | < 3.3 ¢ (FIFO 64-byte packets) |
| :---: | :---: | :---: |
|  | Throughput | 95.2 million pps |
|  | Switching capacity | $128 \mathrm{~Gb} / \mathrm{s}$ |
|  | Routing table size | 2048 entries (IPv4), 256 entries (IPv6) |
|  | MAC address table size | 16000 entries |
| Environment | Operating temperature | $32^{\circ} \mathrm{F}$ to $131^{\circ} \mathrm{F}\left(0^{\circ} \mathrm{C}\right.$ to $\left.55^{\circ} \mathrm{C}\right)$ |
|  | Operating relative humidity | 15\% to 95\%, noncondensing |
|  | Non-operating/ <br> Storage temperature | $-40^{\circ} \mathrm{F}$ to $158^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right.$ to $\left.70^{\circ} \mathrm{C}\right)$ |
|  | Non-operating/ Storage relative humidity | 15\% to 95\%, noncondensing |
|  | Altitude | up to 10,000 ft (3 km) |
|  | Acoustic | Power: 61 dB, Pressure: 44.9 dB |
| Electrical characteristics | Frequency | $50 / 60 \mathrm{~Hz}$ |
|  | Maximum heat dissipation | 358 BTU/hr ( $377.69 \mathrm{~kJ} / \mathrm{hr}$ ) |
|  | AC voltage | 100-240 VAC |
|  | Maximum power rating | 475 W |
|  | Idle power | 42 W |
|  | PoE power | 370 W |
| Safety | CE Labeled; EN 60825-1 Safety of Laser Products-Part 1; FCC Part 15, Subpart B; GOST; EU RoHS Compliant; EN 55022 Class A; EN 55024: 1998; C-Tick; ICES-003, Class A; VCCI Class A; IEC 60950-1 :Second Edition ; IEC 60825-1; EN62479:2010; CSA C22.2 No. 60950-1-07 2nd Edition; EN 609501:2006+A11:2009+A1:2010+A12:2011; IEC 60950-1 (ed.2): am1 |  |
| Emissions | FCC part 15 Class A; VCCI Class A; EN 55022/CISPR 22 Class A |  |
| 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+; IMC - Intelligent menu; out-of-band manage of-band; out-of-band mana | Management Center; command-line interface; Web browser; configuration ement (RJ-45 Ethernet); SNMP Manager; Telnet; RMON1; FTP; in-line and outagement (serial RS-232C or Micro USB) |

## Technical Specifications

| 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 2920-48G Switch (J9728A) |  |
| I/0 ports and slots | 44 RJ-45 autosensing 10/100/1000 ports; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) 4 RJ-45 dual-personality 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) <br> 1 dual-personality (RJ-45 or USB micro-B) <br> 1 USB 1.1 <br> 1 RJ-45 out-of-band management port <br> 2 module slots <br> 1 stacking module slot |
| Power supplies | 1 power supply slot <br> 1 minimum power supply required <br> includes: 1 x J9739A (HP X331 165W 100-240VAC to 12VDC Modular Power Supply) |
| Physical characteristics | Dimensions $\quad 17.42(\mathrm{w}) \times 13.23$ (d) $\times 1.75(\mathrm{~h})$ in $(44.25 \times 33.6 \times 4.45 \mathrm{~cm})$ (1U height) |
|  | Weight $\quad 11.95 \mathrm{lb}(5.42 \mathrm{~kg})$ |
| Memory and processor | Tri Core ARM1176 @ 625 MHz, 512 MB SDRAM, 1 GB flash; packet buffer size: 11.25 MB (6.75 MB dynamic egress + 4.5 MB ingress) |
| Performance | 100 Mb Latency $<9.0 \mu \mathrm{~s}$ (FIFO 64-byte packets) |
|  | 1000 Mb Latency $<3.3$ s (FIFO 64-byte packets) |
|  | 10 Gbps Latency $<3.2 \mu$ (FIFO 64-byte packets) |
|  | Throughput 130.9 million pps |
|  | Switching capacity $176 \mathrm{~Gb} / \mathrm{s}$ |
|  | Routing table size 2048 entries (IPv4), 256 entries (IPv6) |
|  | MAC address table size 16000 entries |
| Environment | Operating temperature $32^{\circ} \mathrm{F}$ to $131^{\circ} \mathrm{F}\left(0^{\circ} \mathrm{C}\right.$ to $\left.55^{\circ} \mathrm{C}\right)$ |
|  | Operating relative humidity |
|  | $\begin{array}{ll}\text { Non-operating/ } \\ \text { Storage temperature } & -40^{\circ} \mathrm{F} \text { to } 158^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C} \text { to } 70^{\circ} \mathrm{C}\right)\end{array}$ |
|  | Non-operating/ $15 \%$ to $95 \%$, noncondensing Storage relative humidity |
|  | Altitude up to 10,000 ft (3 km) |
|  | Acoustic Power: 57 dB , Pressure: 41.8 dB |
| Electrical characteristics | Frequency $50 / 60 \mathrm{~Hz}$ |
|  | Maximum heat dissipation |
|  | AC voltage 100-240 VAC |
|  | Maximum power rating 70 W |

Technical Specifications


| HP | A) |
| :---: | :---: |
| I/0 ports and slots | 44 RJ-45 autosensing 10/100/1000 PoE+ ports; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+) <br> 4 RJ-45 dual-personality 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+) <br> 1 dual-personality (RJ-45 or USB micro-B) <br> 1 USB 1.1 <br> 1 RJ-45 out-of-band management port <br> 2 module slots <br> 1 stacking module slot |
| Power supplies | 1 power supply slot 1 minimum power supply required includes: 1 x J9738A (HP X332 575W 100-240VAC to 54VDC Modular Power Supply) |
| Physical characteristics | Dimensions $17.42(\mathrm{w}) \times 13.23(\mathrm{~d}) \times 1.73(\mathrm{~h})$ in $(44.25 \times 33.6 \times 4.39 \mathrm{~cm})$ ( 1 U height) <br> Weight $12.57 \mathrm{lb}(5.7 \mathrm{~kg})$ |
| Memory and processor | Tri Core ARM1176 @ 625 MHz, 512 MB SDRAM, 1 GB flash; packet buffer size: 11.25 MB (6.75 MB dynamic egress + 4.5 MB ingress) |
| Performance | 100 Mb Latency $<9.0 \mu \mathrm{~s}$ (FIFO 64-byte packets) |

## Technical Specifications

|  | 1000 Mb Latency | < 3.2 ¢ (FIFO 64-byte packets) |
| :---: | :---: | :---: |
|  | 10 Gbps Latency | < 3.2 ¢s (FIFO 64-byte packets) |
|  | Throughput | 130.9 million pps |
|  | Switching capacity | $176 \mathrm{~Gb} / \mathrm{s}$ |
|  | Routing table size | 2048 entries (IPv4), 256 entries (IPv6) |
|  | MAC address table size | 16000 entries |
| Environment | Operating temperature | $32^{\circ} \mathrm{F}$ to $131^{\circ} \mathrm{F}\left(0^{\circ} \mathrm{C}\right.$ to $\left.55^{\circ} \mathrm{C}\right)$ |
|  | Operating relative humidity | $15 \%$ to 95\%, noncondensing |
|  | Non-operating/ | $-40^{\circ} \mathrm{F}$ to $158^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right.$ to $\left.70^{\circ} \mathrm{C}\right)$ |
|  | Storage temperature |  |
|  | Non-operating/ | 15\% to 95\%, noncondensing |
|  | Storage relative humidity |  |
|  | Altitude | up to 10,000 ft (3 km) |
|  | Acoustic | Power: 62 dB , Pressure: 45.2 dB |
| Electrical characteristics | Frequency | $50 / 60 \mathrm{~Hz}$ |
|  | Maximum heat dissipation | 399 BTU/hr (420.95 kJ/hr) |
|  | AC voltage | 100-240 VAC |
|  | Maximum power rating | 487 W |
|  | Idle power | 46 W |
|  | PoE power | 370 W |
| Safety | CE Labeled; EN 60825-1 Safety of Laser Products-Part 1; FCC Part 15, Subpart B; GOST; EU RoHS Compliant; EN 55022 Class A; EN 55024: 1998; C-Tick; ICES-003, Class A; VCCI Class A; IEC 60825-1; IEC 60950-1, Second Edition; EN62479:2010; CSA C22.2 No. 60950-1-07 2nd Edition; EN 609501:2006+A11:2009+A1:2010+A12:2011; IEC 60950-1 (ed.2): am1 |  |
| Emissions | FCC part 15 Class A; VCCI Class | ass A; EN 55022/CISPR 22 Class A |
| 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 |

## Technical Specifications

| Management | HP PCM+; IMC - Intelligent Management Center; command-line interface; Web browser; configuration <br> menu; out-of-band management (RJ-45 Ethernet); SNMP Manager; Telnet; RMON1; FTP; in-line and out- <br> of-band; out-of-band management (serial RS-232C or Micro USB) |
| :--- | :--- |
| Services | Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions <br>  <br>  <br>  <br>  <br>  <br>  <br> HP sales office. |

HP 2920-48G-PoE+ 740W Switch (J9836A)

| I/0 ports and slots | 44 RJ-45 autosensing 10/ full only (IEEE 802.3 Type 802.3at PoE+) <br> 4 RJ-45 dual-personality 100BASE-TX, IEEE 802.3ab <br> 1 dual-personality (RJ-45 <br> 1 USB 1.1 <br> 1 RJ-45 out-of-band man <br> 2 module slots <br> 1 stacking module slot | 00/1000 PoE+ ports; Duplex: 10BASE-T/1 OBASE-T, IEEE 802.3u Type 100BASE-TX, <br> 0/100/1000 PoE+ ports (IEEE 802.3 Typ Type 1000BASE-T, IEEE 802.3at PoE+) or USB micro-B) <br> gement port |
| :---: | :---: | :---: |
| Power supplies | 1 power supply slot 1 minimum power supply includes: 1 x J9737A (HP X3 | equired <br> 332 1050W 110-240VAC to 54VDC Pow |
| Physical characteristics | Dimensions Weight | $\begin{aligned} & 17.42(\mathrm{w}) \times 13.23(\mathrm{~d}) \times 1.73(\mathrm{~h}) \text { in }(44.25 \\ & 12.86 \mathrm{lb}(5.83 \mathrm{~kg}) \end{aligned}$ |
| Memory and processor | Tri Core ARM1176 @ 625 (6.75 MB dynamic egress | Hz, 512 MB SDRAM, 1 GB flash; packet 4.5 MB ingress) |
| Performance | 100 Mb Latency | < 9.0 ¢ (FIFO 64-byte packets) |
|  | 1000 Mb Latency | < 3.2 นs (FIFO 64-byte packets) |
|  | 10 Gbps Latency | < 3.2 ¢s (FIFO 64-byte packets) |
|  | Throughput | 130.9 million pps |
|  | Switching capacity | 176 Gb/s |
|  | Routing table size | 2048 entries (IPv4), 256 entries (IPv6) |
|  | MAC address table size | 16000 entries |
| Environment | Operating temperature | $32^{\circ} \mathrm{F}$ to $131^{\circ} \mathrm{F}\left(0^{\circ} \mathrm{C}\right.$ to $\left.55^{\circ} \mathrm{C}\right)$ |
|  | Operating relative humidity | 15\% to 95\%, noncondensing |
|  | Non-operating/ Storage temperature | $-40^{\circ} \mathrm{F}$ to $158^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right.$ to $\left.70^{\circ} \mathrm{C}\right)$ |
|  | Non-operating/ <br> Storage relative humidity | $15 \%$ to $95 \%$, noncondensing |
|  | Altitude | up to 10,000 ft (3 km) |
|  | Acoustic | Power: -53 dB, Pressure: -38.3 dB |
| Electrical characteristics | Frequency | $50 / 60 \mathrm{~Hz}$ |


|  | Maximum heat dissipation | $399 \mathrm{BTU} / \mathrm{hr}(420.95 \mathrm{~kJ} / \mathrm{hr})$ |
| :---: | :---: | :---: |
|  | AC voltage | 100-240 VAC |
|  | Maximum power rating | 487 W |
|  | Idle power | 46 W |
|  | PoE power | 740 W |
| Safety | CE Labeled; EN 60825-1 Safety of Laser Products-Part 1; FCC Part 15, Subpart B; GOST; EU RoHS <br> Compliant; EN 55022 Class A; EN 55024: 1998; C-Tick; ICES-003, Class A; VCCI Class A; IEC 60950-1 :Second <br> Edition ; IEC 60825-1; EN62479:2010; CSA C22.2 No. 60950-1-07 2nd Edition; EN 60950- <br> 1:2006+A11:2009+A1:2010+A12:2011; IEC 60950-1 (ed.2): am1 |  |
| Emissions | FCC part 15 Class A; VCCI Class A; EN 55022/CISPR 22 Class A |  |
| 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+; IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (RJ-45 Ethernet); SNMP Manager; Telnet; RMON1; FTP; in-line and out-of-band; out-of-band management (serial RS-232C or Micro USB) |  |
| 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. |  |

## Standards and protocols

## Denial of service protection

CPU DoS Protection
Device management
RFC 1155 Structure and Mgmt Information (SMIv1)
RFC 1157 SNMPv1/v2c
RFC 1591 DNS (client)
RFC 1901 (Community based SNMPv2)
RFC 1901-1907 SNMPv2c, SMIv2 and Revised MIB-II
RFC 1908 (SNMP v1/2 Coexistence)
RFC 2578-2580 SMIv2
RFC 2579 (SMIv2 Text Conventions)
RFC 2580 (SMIv2 Conformance)
RFC 2819 (RMON groups Alarm, Event, History and

HP 2920 Switch Series

## Technical Specifications

Statistics only)
RFC 3416 (SNMP Protocol Operations v2)
RFC 3417 (SNMP Transport Mappings)
HTML and telnet management
HTTP, SSHv1, and Telnet
Multiple Configuration Files
Multiple Software Images
SNMP v3 and RMON RFC support
SSHv1/SSHv2 Secure Shell
TACACS/TACACS+
Web UI
General protocols
IEEE 802.1AX-2008 Link Aggregation
IEEE 802.1D MAC Bridges
IEEE 802.1p Priority
IEEE 802.1Q VLANs
IEEE 802.1s Multiple Spanning Trees
IEEE 802.1v VLAN classification by Protocol and Port
IEEE 802.1w Rapid Reconfiguration of Spanning Tree
IEEE 802.3ab 1000BASE-T
IEEE 802.3ad Link Aggregation Control Protocol (LACP)
IEEE 802.3af Power over Ethernet
IEEE 802.3at PoE+
IEEE 802.3az Energy Efficient Ethernet
IEEE 802.3x Flow Control
RFC 768 UDP
RFC 783 TFTP Protocol (revision 2)
RFC 792 ICMP
RFC 793 TCP
RFC 826 ARP
RFC 854 TELNET
RFC 868 Time Protocol
RFC 951 BOOTP
RFC 1058 RIPv1
RFC 1256 ICMP Router Discovery Protocol (IRDP)
RFC 1350 TFTP Protocol (revision 2)
RFC 1519 CIDR
RFC 1542 BOOTP Extensions
RFC 2030 Simple Network Time Protocol (SNTP) v4
RFC 2131 DHCP
RFC 2236 IGMP Snooping
RFC 2453 RIPv2
RFC 2865 Remote Authentication Dial In User Service (RADIUS)
RFC 2866 RADIUS Accounting
RFC 3046 DHCP Relay Agent Information Option
RFC 3411 An Architecture for Describing Simple Network Management Protocol (SNMP) Management
Frameworks
RFC 3412 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)
RFC 3413 Simple Network Management Protocol (SNMP) Applications
RFC 3414 User-based Security Model (USM) for version 3

## Technical Specifications

> of the Simple Network Management Protocol (SNMPv3)
> RFC 3415 View-based Access Control Model (VACM) for
> the Simple Network Management Protocol (SNMP)
> RFC 3416 Protocol Operations for SNMP
> RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP)
> RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)
> RFC 3576 Ext to RADIUS (CoA only)
> RFC 4541 Considerations for Internet Group
> Management Protocol (IGMP) and Multicast Listener Discovery (MLD) Snooping Switches
> RFC 4675 RADIUS VLAN \& Priority
> RFC 4861 Neighbor Discovery for IP version 6 (IPv6)
> RFC 4862 IPv6 Stateless Address Autoconfiguration
> UDLD (Uni-directional Link Detection)

## IP multicast

RFC 1112 IGMP
RFC 2236 IGMPv2
RFC 2710 Multicast Listener Discovery (MLD) for IPv6
RFC 3376 IGMPv3 (host joins only)
RFC 4541 Considerations for Internet Group
Management Protocol (IGMP) and Multicast Listener
Discovery (MLD) Snooping Switches

## IPv6

RFC 1981 IPv6 Path MTU Discovery
RFC 2460 IPv6 Specification
RFC 2710 Multicast Listener Discovery (MLD) for IPv6
RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only)
RFC 2925 Remote Operations MIB (Ping only)
RFC 3019 MLDv1 MIB
RFC 3315 DHCPv6 (client and relay)
RFC 3513 IPv6 Addressing Architecture
RFC 3596 DNS Extension for IPv6
RFC 3810 MLDv2 (host joins only)
RFC 4022 MIB for TCP
RFC 4113 MIB for UDP
RFC 4251 SSHv6 Architecture
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

## MIBs

IEEE 802.1ap (MSTP and STP MIB's only)
RFC 1156 (TCP/IP MIB)
RFC 1157 A Simple Network Management Protocol (SNMP)

## Technical Specifications

RFC 1213 MIB II
RFC 1493 Bridge MIB
RFC 1724 RIPv2 MIB
RFC 2021 RMONv2 MIB
RFC 2578 Structure of Management Information Version 2 (SMIv2)
RFC 2579 Textual Conventions for SMIv2
RFC 2580 Conformance Statements for SMIv2
RFC 2613 SMON MIB
RFC 2618 RADIUS Client MIB
RFC 2620 RADIUS Accounting MIB
RFC 2665 Ethernet-Like-MIB
RFC 2668 802.3 MAU MIB
RFC 2674 802.1p and IEEE 802.1Q Bridge MIB
RFC 2737 Entity MIB (Version 2)
RFC 2819 RMON MIB
RFC 2863 The Interfaces Group MIB
RFC 2925 Ping MIB
RFC 2933 IGMP MIB
RFC 3414 SNMP-User based-SM MIB
RFC 3415 SNMP-View based-ACM MIB
RFC 3417 Simple Network Management Protocol (SNMP) over IEEE 802 Networks RFC 3418 MIB for SNMPv3

Network management
IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
RFC 1155 Structure of Management Information
RFC 1157 SNMPv1
RFC 2021 Remote Network Monitoring Management
Information Base Version 2 using SMIv2
RFC 2576 Coexistence between SNMP versions
RFC 2578 Structure of Management Information Version
2 (SMIv2)
RFC 2579 Textual Conventions for SMIv2
RFC 2580 Conformance Statements for SMIv2
RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)
RFC 2819 Remote Network Monitoring Management Information Base
RFC 2856 Textual Conventions for Additional High
Capacity Data Types
RFC 2925 Definitions of Managed Objects for Remote
Ping, Traceroute, and Lookup Operations
RFC 3164 BSD syslog Protocol
RFC 3176 sFlow
RFC 3411 SNMP Management Frameworks
RFC 3412 SNMPv3 Message Processing
RFC 3414 SNMPv3 User-based Security Model (USM)
RFC 3415 SNMPv3 View-based Access Control Model VACM)
ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
SNMPv1/v2c/v3
XRMON

QoS/CoS

IEEE 802.1P (CoS)
RFC 2474 DiffServ Precedence, including 8 queues/port
RFC 2597 DiffServ Assured Forwarding (AF)
RFC 2598 DiffServ Expedited Forwarding (EF)
Ingress Rate Limiting

## Security

IEEE 802.1X Port Based Network Access Control
IEEE 802.1X:Port-Based Network Access Control (2001)
RFC 1321 The MD5 Message-Digest Algorithm
RFC 1334 PPP Authentication Protocols (PAP)
RFC 1492 An Access Control Protocol, Sometimes Called TACACS
RFC 1492 TACACS+
RFC 1994 PPP Challenge Handshake Authentication
Protocol (CHAP)
RFC 2082 RIP-2 MD5 Authentication
RFC 2104 Keyed-Hashing for Message Authentication
RFC 2138 RADIUS Authentication
RFC 2139 RADIUS Accounting
RFC 2246 Transport Layer Security (TLS)
RFC 2548 Microsoft Vendor-specific RADIUS Attributes
RFC 2618 RADIUS Authentication Client MIB
RFC 2620 RADIUS Accounting Client MIB
RFC 2716 PPP EAP TLS Authentication Protocol
RFC 2818 HTTP Over TLS
RFC 2865 RADIUS (client only)
RFC 2865 RADIUS Authentication
RFC 2866 RADIUS Accounting
RFC 2867 RADIUS Accounting Modifications for Tunnel Protocol Support
RFC 2868 RADIUS Attributes for Tunnel Protocol Support
RFC 2869 RADIUS Extensions
RFC 2882 NAS Requirements: Extended RADIUS Practices
RFC 3162 RADIUS and IPv6
RFC 3576 Dynamic Authorization Extensions to RADIUS
RFC 3579 RADIUS Support For Extensible Authentication Protocol (EAP)
RFC 3580 IEEE 802.1X Remote Authentication Dial In
User Service (RADIUS) Usage Guidelines
RFC 4576 RADIUS Attributes
Access Control Lists (ACLs)
draft-grant-tacacs-02 (TACACS)
Guest VLAN for 802.1x
MAC Authentication
MAC Lockdown
MAC Lockout
Port Security
Secure Sockets Layer (SSL)
SSHv2 Secure Shell
Web Authentication

HP 2920 Switch Series

## 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 Cabling<br>LC/LC Optical Cable<br>(AJ833A)

## Cable type:

$50 / 125 \mu \mathrm{~m}$ (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of $2000 \mathrm{MHz} / \mathrm{km}$ 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: $50 \pm 3$. 0 um Cladding diameter: $125 \pm 2.0$ um Coating diameter: $245 \pm 10$ 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, $0.003 \mathrm{~dB} / \mathrm{M}$ added for lengths > 30 meters.
- Maximum Cable attenuation: $3.0 \mathrm{~dB} / \mathrm{km} @ 850 \mathrm{~nm}, 1.0 \mathrm{~dB} / \mathrm{Km} @ 1310$ $n m @ 23^{\circ} \mathrm{C}$ as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454 Kg


## 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 2920 Switch Series

## Accessory Product Details

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

## Cable type:

50/125 $\mu \mathrm{m}$ (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of $2000 \mathrm{MHz} / \mathrm{km}$ as detailed in TIA-492AAAC for distances of up to 300 m

## Maximum distance:

10Gbps Transfer Rate (Ethernet): 300 m
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: $50 \pm 3$. Oum Cladding diameter: $125 \pm 2.0$ um Coating diameter: $245 \pm 10$ 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, $0.003 \mathrm{~dB} / \mathrm{M}$ added for lengths > 30 meters.
- Maximum Cable attenuation: $3.0 \mathrm{~dB} / \mathrm{km} @ 850 \mathrm{~nm}, 1.0 \mathrm{~dB} / \mathrm{Km} @ 1310$ nm @ $23^{\circ} \mathrm{C}$ as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454 Kg

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 2920 Switch Series
Accessory Product Details

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

## Cable type:

$50 / 125 \mu \mathrm{~m}$ (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of $2000 \mathrm{MHz} / \mathrm{km}$ as detailed in TIA-492AAAC for distances of up to 300 m ;

## Maximum distance:

10Gbps Transfer Rate (Ethernet): 300 m
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: $50 \pm 3$. Oum Cladding diameter: $125 \pm 2.0$ um Coating diameter: $245 \pm 10$ 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 $0.5 \mathrm{~dB} @ 850$ with LED source, $0.003 \mathrm{~dB} / \mathrm{M}$ added for lengths > 30 meters.
- Maximum Cable attenuation: $3.0 \mathrm{~dB} / \mathrm{km} @ 850 \mathrm{~nm}, 1.0 \mathrm{~dB} / \mathrm{Km} @ 1310$ nm @ $23^{\circ} \mathrm{C}$ as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454 Kg


## 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 5 m Multimode OM3 Cabling<br>LC/LC Optical Cable<br>(AJ836A)

## Cable type:

50/125 $\mu \mathrm{m}$ core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of $2000 \mathrm{MHz} / \mathrm{km}$ as detailed in TIA-492AAAC for distances of up to 300 m ;

## Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m
Notes

Services

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: $50 \pm 3$. Oum Cladding diameter: $125 \pm 2.0$ um Coating diameter: $245 \pm 10$ um
- Optical Glass Bandwidth: For LED sources: $1500 / 500 \mathrm{MHz}-\mathrm{km}$ @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 $0.5 \mathrm{~dB} @ 850$ with LED source, $0.003 \mathrm{~dB} / \mathrm{M}$ added for lengths > 30 meters.
- Maximum Cable attenuation: $3.0 \mathrm{~dB} / \mathrm{km} @ 850 \mathrm{~nm}, 1.0 \mathrm{~dB} / \mathrm{Km} @ 1310$ $n m @ 23^{\circ} \mathrm{C}$ as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454 Kg

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 2920 Switch Series

## Accessory Product Details

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

## Cable type:

50/125 $\mu \mathrm{m}$ (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of $2000 \mathrm{MHz} / \mathrm{km}$ as detailed in TIA-492AAAC for distances of up to 300 m ;

## Maximum distance:

10Gbps Transfer Rate (Ethernet): 300 m
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: $50 \pm 3$. Oum Cladding diameter: $125 \pm 2.0$ um Coating diameter: $245 \pm 10$ 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, $0.003 \mathrm{~dB} / \mathrm{M}$ added for lengths > 30 meters.
- Maximum Cable attenuation: $3.0 \mathrm{~dB} / \mathrm{km} @ 850 \mathrm{~nm}, 1.0 \mathrm{~dB} / \mathrm{Km} @ 1310$ $n m @ 23^{\circ} \mathrm{C}$ as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454 Kg

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 2920 Switch Series

## Accessory Product Details

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

## Cable type:

50/125 $\mu \mathrm{m}$ (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of $2000 \mathrm{MHz} / \mathrm{km}$ as detailed in TIA-492AAAC for distances of up to 300 m ;

## Maximum distance:

10Gbps Transfer Rate (Ethernet): 300 m
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: $50 \pm 3$. Oum Cladding diameter: $125 \pm 2.0$ um Coating diameter: $245 \pm 10$ 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, $0.003 \mathrm{~dB} / \mathrm{M}$ added for lengths > 30 meters.
- Maximum Cable attenuation: $3.0 \mathrm{~dB} / \mathrm{km} @ 850 \mathrm{~nm}, 1.0 \mathrm{~dB} / \mathrm{Km} @ 1310$ $n m @ 23^{\circ} \mathrm{C}$ as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454 Kg

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 2920 Switch Series
Accessory Product Details

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

## Cable type:

50/125 $\mu \mathrm{m}$ (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of $2000 \mathrm{MHz} / \mathrm{km}$ as detailed in TIA-492AAAC for distances of up to 300 m ;

## Maximum distance:

10Gbps Transfer Rate (Ethernet): 300 m
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: $50 \pm 3$. Oum Cladding diameter: $125 \pm 2.0$ um Coating diameter: $245 \pm 10$ 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 $0.5 \mathrm{~dB} @ 850$ with LED source, $0.003 \mathrm{~dB} / \mathrm{M}$ added for lengths > 30 meters.
- Maximum Cable attenuation: $3.0 \mathrm{~dB} / \mathrm{km} @ 850 \mathrm{~nm}, 1.0 \mathrm{~dB} / \mathrm{Km} @ 1310$ nm @ $23^{\circ} \mathrm{C}$ as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454 Kg

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 Premier Flex LC/LC Notes
Multi-mode OM4 2 fiber
1 m Cable (QK732A)
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## Services

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 um $\pm 3 u m$, Cladding diameter: $125 u m ~ \pm 2 u m$; Coating diameter: $245 \pm 10$ 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.
- Insertion Loss: Less than $0.5 \mathrm{~dB} @ 850 \mathrm{~nm}$ with LED source, $0.003 \mathrm{~dB} / \mathrm{m}$ added for lengths $>30 \mathrm{~m}$
- Maximum Cable Attenuation: $3.0 \mathrm{~dB} / \mathrm{km}$ @ $850 \mathrm{~nm}, 1.0 \mathrm{~dB} / \mathrm{km}$ @ 1310 nm @ $23^{\circ} \mathrm{C}$ as tested in accordance with EIA 455-45
Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.


## HP Premier Flex LC/LC <br> Multi-mode OM4 2 fiber <br> 2m Cable (QK733A)

## Notes

duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50 um $\pm 3$ um, Cladding diameter: 125 um $\pm 2$ um; Coating
diameter: $245 \pm 10 u m$
- Bandwidth: 3000 MHz -km @ 850 nm (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, $50 / 125$ um, Type

OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white

stripe that runs the entire length of the cable.

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: $50 \mathrm{um} \pm 3 \mathrm{um}$, Cladding diameter: $125 \mathrm{um} \pm 2 \mathrm{um}$; Coating diameter: $245 \pm 10 \mathrm{um}$
- 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.
- Insertion Loss: Less than 0.5 dB @ 850 nm with LED source, $0.003 \mathrm{~dB} / \mathrm{m}$ added for lengths >30m
- Maximum Cable Attenuation: $3.0 \mathrm{~dB} / \mathrm{km}$ @ 850nm, $1.0 \mathrm{~dB} / \mathrm{km}$ @ 1310nm @ $23^{\circ} \mathrm{C}$ as tested in accordance with EIA 455-45
Refer to the HP website at www.hp.com/networking/services for details on and response times in your area, please contact your local HP sales office.

HP Premier Flex LC/LC<br>Multi-mode OM4 2 fiber<br>5m Cable (QK734A)

## HP Premier Flex LC/LC <br> Multi-mode OM4 2 fiber

15m Cable (QK735A)

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

Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

## Notes

services

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: $50 \mathrm{um} \pm 3 \mathrm{um}$, Cladding diameter: $125 \mathrm{um} \pm 2 \mathrm{um}$; Coating diameter: $245 \pm 10 \mathrm{um}$
- 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.
- Insertion Loss: Less than $0.5 \mathrm{~dB} @ 850 \mathrm{~nm}$ with LED source, $0.003 \mathrm{~dB} / \mathrm{m}$ added for lengths $>30 \mathrm{~m}$
- Maximum Cable Attenuation: $3.0 \mathrm{~dB} / \mathrm{km}$ @ $850 \mathrm{~nm}, 1.0 \mathrm{~dB} / \mathrm{km}$ @ 1310nm @ $23^{\circ} \mathrm{C}$ as tested in accordance with EIA 455-45
Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.


## HP Premier Flex LC/LC <br> Notes

Multi-mode OM4 2 fiber
30m Cable (QK736A)
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|  | - Core diameter: 50 um $\pm 3 u m$, Cladding diameter: $125 u m \pm 2 u m$; Coating diameter: $245 \pm 10$ um <br> - Bandwidth: 3000 MHz-km @ 850nm (Laser) <br> - Jacket Color: Blue <br> - Jacket Material: Riser Grade - Low Smoke Zero Halogen (LSZH) thermoplastic <br> - Boot Color: White <br> - 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. <br> - Insertion Loss: Less than 0.5 dB @ 850 nm with LED source, $0.003 \mathrm{~dB} / \mathrm{m}$ added for lengths $>30 \mathrm{~m}$ <br> - Maximum Cable Attenuation: $3.0 \mathrm{~dB} / \mathrm{km} @ 850 \mathrm{~nm}, 1.0 \mathrm{~dB} / \mathrm{km}$ @ 1310nm @ $23^{\circ} \mathrm{C}$ 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. |

- Core diameter: $50 \mathrm{um} \pm 3 \mathrm{um}$, Cladding diameter: $125 \mathrm{um} \pm 2 \mathrm{um}$; Coating diameter: $245 \pm 10$ 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.
- Insertion Loss: Less than 0.5 dB @ 850 nm with LED source, $0.003 \mathrm{~dB} / \mathrm{m}$ added for lengths $>30 \mathrm{~m}$
- Maximum Cable Attenuation: $3.0 \mathrm{~dB} / \mathrm{km}$ @ 850nm, $1.0 \mathrm{~dB} / \mathrm{km}$ @ 1310nm @ $23^{\circ} \mathrm{C}$ as tested in accordance with EIA 455-45
Refer to the HP website at www.hp.com/networking/services for details on and response times in your area, please contact your local HP sales office.
Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

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## HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A)

## Notes

duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50 um $\pm 3$ um, Cladding diameter: 125 um $\pm 2$ um; Coating
diameter: $245 \pm 10 u m$
- Bandwidth: 3000 MHz -km @ 850 nm (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, $50 / 125$ um, Type

OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white

stripe that runs the entire length of the cable.
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Accessory Product Details

HP X410 1U Universal 4- Notes post Rack Mounting Kit (J9583A)

Notes

The rack mounting kit supports the 1 U , 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
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 Identity Driven Manager 3.0 Software--500-User License (J9438A)

Identity Driven Manager $\mathbf{3 . 0}$ software and license for managing up to $\mathbf{5 0 0}$ users.

RADIUS server support

Features

Notes

Microsoft Network Policy Server on Windows Server 2008 (32-bit)
Microsoft Internet Authentication Service (IAS) on Windows Server 2003 (32bit)
FreeRADIUS supplied with Red Hat Enterprise Linux (4.7 and 5.2)
RADIUS on the Network Access Controller 800
FreeRADIUS supplied with SuSE Linux Enterprise Server (9.3 and 10.2)
Intuitive Explorer-style interface
OpenView NNM integration
Application of policies by user identity

- Auto VLAN assignment
- Auto set quality of service by user
- Auto set bandwidth assignment by user

Rule-based access rights deployment

Dynamic rights assignment based on:

- Time
- Location
- User system

Auto-discovery of:

- RADIUS servers
- Realms
- Users

Additional specifications

- Supports environments with up to 10,000 users.
- Supports up to 10 RADIUS servers with HP Identity Driven Manager agents installed.

Requires the HP PCM Plus 3.0 or greater network management platform.

- Please see HP PCM Plus 3.0 for hardware and software system

HP 2920 Switch Series

## Accessory Product Details

## Services

requirements.
3-Year, 9x5 SW phone support, software updates (UQ124E) 3 -year, $24 \times 7$ SW phone support, software updates (UQ125E)

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 Identity Driven Manager 3.0 Software-Additional 1,000-User License (J9440A)

License to add support for managing an additional 1,000 users with the Identity Driven Manager 3.0 product.

RADIUS server support Features -
Notes Additional specifications

- Supports environments with up to 10,000 users.
- Supports up to 10 RADIUS servers with HP Identity Driven Manager agents installed.

Requires the HP PCM Plus 3.0 or greater network management platform.

- Please see HP PCM Plus 3.0 for hardware and software system requirements. Requires the HP Identity Driven Manager 3.0 base product (J9438A).

Multiple licenses for additional 1,000 users can be added to the base HP Identity Driven Manager product to support larger numbers of users.

## Services

3 -year, 24×7 SW phone support, software updates (UQ119E)
3 -Year, $9 \times 5$ SW phone support, software updates (UQ118E)
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 2920 Switch Series

## Accessory Product Details

HP Identity Driven
Manager 3.0 Software--Unlimited-User License (J9439A)

Identity Driven Manager 3.0 software and license for managing an unlimited number of users.

RADIUS server support Microsoft Network Policy Server on Windows Server 2008 (32-bit)
Microsoft Internet Authentication Service (IAS) on Windows Server 2003 (32-
bit)
FreeRADIUS supplied with Red Hat Enterprise Linux (4.7 and 5.2)
RADIUS on the Network Access Controller 800
FreeRADIUS supplied with SuSE Linux Enterprise Server (9.3 and 10.2)
Features

Notes

## Services

Intuitive Explorer-style interface
OpenView NNM integration
Application of policies by user identity

- Auto VLAN assignment
- Auto set quality of service by user
- Auto set bandwidth assignment by user

Rule-based access rights deployment
Dynamic rights assignment based on:

- Time
- Location
- User system

Auto-discovery of:

- RADIUS servers
- Realms
- Users

Additional specifications

- Supports environments with up to 10,000 users.
- Supports up to 10 RADIUS servers with HP Identity Driven Manager agents installed.

Requires the HP PCM Plus 3.0 or greater network management platform.
Please see HP PCM Plus 3.0 for hardware and software system requirements.
3 -year, 24x7 SW phone support, software updates (UQ133E)
3 -Year, $9 \times 5$ SW phone support, software updates (UQ132E)
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

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