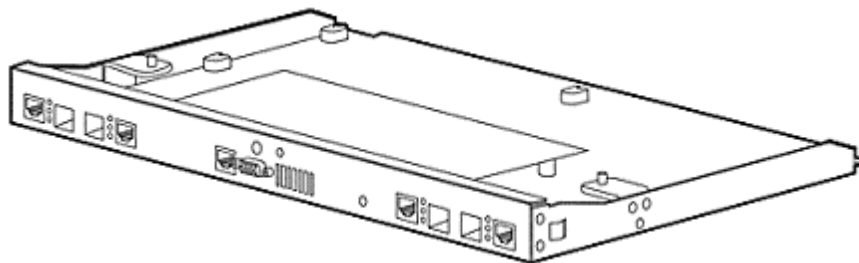


Overview



Models

HP BladeSystem PC Blade Switch (preinstalled in a PC Blade enclosure)

PX829AW

HP BladeSystem PC Blade Switch (switch only)

PX830AW

Key Features

Port configuration

- 42 10/100BASE-T ports
- 4 RJ-45 10/100/1000BASE-T ports
- 4 SFP slots for fiber media support (disables Copper)
- 802.3u and 802.3ab Auto-negotiation for speed, duplex mode and 802.3x flow control; Auto MDI/MDIX on uplink ports
- Port mirroring; Broadcast storm control; Cable Tester

Performance

- Switching capacity 12.8 Gbps
- Forwarding rate 9.5 Mpps
- Up to 8,000 MAC addresses

Management

- Web-based management interface
- Industry-standard CLI accessible via Telnet or Local Serial Port
- SNMPv1, SNMPv2c and SNMPv3 supported; four RMON groups supported (history, statistics, alarms and events)
- TFTP transfers of firmware and configuration files
- Dual firmware images on-board
- Multiple configuration file upload/download supported
- Statistics for error monitoring and performance optimization including port summary tables
- BootP/DHCP IP address management supported
- Secure Telnet (SSH)

Quality of service

- Layer 2 trusted mode (IEEE 802.1p tagging); Layer 3 trusted mode (DSCP); 4 priority queues per port; Adjustable Weighted-Round-Robin (WRR) and strict queue scheduling

Security

- IEEE 802.1x based edge authentication
- Switch access password protection
- User-definable settings for enabling or disabling Web, SSH, Telnet, SSL management access
- Port-based MAC address alert and lock-down
- IP address filtering for management access via Telnet, HTTP, HTTPS/SSL, SSH and SNMP
- RADIUS and TACACS+ remote authentication for switch management access
- SSLv3 and SSHv2 encryption for switch management traffic; Management access filtering via management access profiles

Overview

VLAN	<ul style="list-style-type: none">• VLAN support for tagging and port-based as per IEEE 802.1Q; Up to 256 VLANs supported• Dynamic VLAN with GVRP support; Private VLANs
Switching features	<ul style="list-style-type: none">• Link aggregation with up to four aggregated links and up to four member ports per aggregated link (IEEE 802.3ad); LACP support (IEEE 802.3ad)
Availability	<ul style="list-style-type: none">• Spanning Tree (IEEE 802.1D) and Rapid Spanning Tree (IEEE 802.1w) with Fast Link Support• Multiple Spanning Trees (IEEE 802.1s)• Static IP multicast; IGMP snooping for IP multicast support
Peripheral products	<ul style="list-style-type: none">• HP SX SFP Transceiver (available as an option)
Layer 2 multicast	<ul style="list-style-type: none">• Static IP multicast; IGMP snooping for IP multicast support

Technical Specifications

Form Factor	Integrated within enclosure	
Switch Architecture	Single 42 port 10/100	
Uplink Ports	4 Gbs Copper + 4 SFP slots	
Modular Uplink Ports	Yes	
Blade Ports	40 – 10/100	
Interconnect Ports	None needed	
IA Ports	1 – 100Mbps	
Patch Panel Support	Yes (40 RJ-45 connectors)	
RoHS Compliant	Yes	
NonBlocking	Yes	
MAC Address	8K+	
VLANs Supported	1024	
Layer	Layer 2+ minimum	
Spanning Tree Support	802.1d (STP)	Yes
	802.1s (MSTP)	Yes
	802.1w (RSTP)	Yes
	802.1Q VLAN	Yes
	802.1P QoS	Yes
	802.1x Authentication	Yes
	IP Ping/802.2 Link Test	Yes
	802.3ad Link Aggregation	Yes
	802.3x Flow Control (TX & RX)	Yes
	Auto-Neg. 802.3u, 802.3ab	Yes
	GVRP	Yes
	Port Mirroring	Yes
	Port base QoS	Yes
	DHCP Relay	Yes
	Layer 4 packet Class.	Yes

© Copyright 2006 Hewlett-Packard Development Company, L.P.
The information contained herein is subject to change without notice.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.