

NEW ProCurve Switch 2610 Series

The ProCurve Switch 2610 series consists of five switches—the 2610-24 and 2610-48 provide 24 and 48 ports of 10/100 connectivity. The 2610-24 is fanless, ensuring quiet operation and making it ideal for deployment in open spaces. The 2610-24/12PWR, 2610-24-PWR, and 2610-48-PWR are IEEE 802.3af-compliant for Power over Ethernet (PoE) and provide up to 15.4 W for 12, 24, and 48 ports. The 2610-24/12PWR has 24 10/100 ports and provides 12 ports of PoE. All switches include two 10/100/1000Base-T ports and two mini-GBIC slots for Gigabit uplink connectivity. An optional redundant external power supply is also available to provide redundancy in the event of a power supply failure. With static routing, robust security and management features, free lifetime warranty, and free software updates, the 2610 series is a cost-effective solution for customers who are building converged enterprise edge networks.



NEW ProCurve Switch 2610-48
(J9088A)



NEW ProCurve Switch 2610-48-PWR
(J9089A)



NEW ProCurve Switch 2610-24/
12PWR (J9086A)



NEW ProCurve Switch 2610-24
(J9085A)



NEW ProCurve Switch 2610-24-PWR
(J9087A)

ProCurve Switch 2610 Series

Features and benefits

Industry-leading warranty



Connectivity

- **IEEE 802.3af Power over Ethernet:** provides up to 15.4 W per port to IEEE 802.3af compliant PoE powered devices such as IP phones, wireless access points, and security cameras
- **Gigabit Uplink Connectivity:** two 10/100/1000Base-T ports and two mini-GBIC ports for Connectivity such as Gigabit (SX, LX, LH, 1000Base-T) and 100Base-FX
- **ProCurve Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100 ports
- **Jumbo packet support:** supports up to 9,216 byte frame size to improve performance of large data transfers

Resiliency and high availability

- **IEEE 802.3ad Link Aggregation Control Protocol (LACP) and ProCurve trunking:** support up to 24 trunks, each with up to 8 links (ports) per trunk
- **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
- **Optional redundant power supply:** provides uninterrupted power (provided by ProCurve 600 RPS/EPS)

Layer 2 switching

- **VLAN support and tagging:** supports the IEEE 802.1Q (4,096 VLAN IDs) and 256 VLANs simultaneously
- **GARP VLAN Registration Protocol:** allows automatic learning and dynamic assignment of VLANs

Layer 3 routing

- **Basic IP routing:** enables automatic routing to the connected VLANs and up to 16 static routes—including one default route—in IP networks

Security

- **Multiple user authentication methods:**
 - **IEEE 802.1X:** industry-standard way of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server
 - **Web-based authentication:** similar to IEEE 802.1X, provides a browser-based environment to authenticate clients that do not support the IEEE 802.1X supplicant
 - **MAC-based authentication:** client is authenticated with the RADIUS server based on client's MAC address
- **Authentication flexibility:**
 - **Multiple IEEE 802.1X users per port:** provides authentication of up to 8 IEEE 802.1X users per port; prevents user “piggybacking” on another user's IEEE 802.1X authentication
 - **Concurrent IEEE 802.1X and Web or MAC authentication schemes per port:** switch port will accept any of IEEE 802.1X and either Web or MAC authentications
- **ICMP throttling:** defeats ICMP denial-of-service attacks by throttling of ICMP traffic on the switch

♦ For as long as you own the product, with next-business-day advance replacement (available in most countries). For details, refer to the ProCurve Software Licence, Warranty and Support booklet at www.procurve.eu/warranty.

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- **Access control lists (ACLs):** provide IP Layer 3 filtering based on source/destination IP address/subnet and source/destination TCP/UDP port number
- **Identity-driven ACL:** enables implementation of a highly granular and flexible access security policy specific to each authenticated network user
- **Port security:** allows access only to specified MAC addresses, which can be learned or specified by the administrator
- **MAC address lockout:** prevents configured particular MAC addresses from connecting to the network
- **Source-port filtering:** allows only specified ports to communicate with each other
- **TACACS+:** eases switch management security administration by using a password authentication server
- **Secure Shell (SSHv2):** encrypts all transmitted data for secure, remote command-line interface (CLI) access over IP networks
- **Port monitoring for network threats:** Provides sampled port traffic using sFlow technology to the ProCurve Network Immunity Manager application for Network Behavior Anomaly Detection (NBAD) analysis to detect threats and mitigate threats at the port where the threat originated
- **Secure Sockets Layer (SSL):** encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- **Secure FTP:** allows secure file transfer to/from the switch; protects against unwanted file downloads or unauthorized copying of switch configuration file
- **Switch management logon security:** can require either RADIUS or TACACS+ authentication for secure switch CLI logon

- **Dynamic IP lockdown*:** works with DHCP protection to block traffic from unauthorized host, preventing IP source address spoofing
- **Dynamic ARP protection*:** blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data
- **DHCP protection*:** blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks
- **BPDU port protection:** blocks Bridge Protocol Data Units (BPDU) on ports that do not require BPDUs, preventing forged BPDU attacks
- **STP Root Guard:** protects root bridge from malicious attack or configuration mistakes

Convergence

- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP):** automated device discovery protocol for easy mapping by network management applications
- **LLDP-MED (Media Endpoint Discovery):** a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones
- **Pre-standard PoE support:** detects and provides power to pre-standard PoE devices; see list of supported devices in the product FAQ at www.procurve.eu/faq
- **IP multicast snooping and data-driven IGMP:** automatically prevents flooding of IP multicast traffic

Quality of Service (QoS)

- **Class of Service (CoS):** sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), L3 protocol, TCP/UDP port number, source port, and DiffServ
- **Layer 4 prioritization:** enables prioritization based on TCP/UDP port numbers

* Check Web site for availability.

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Features and benefits (continued)

- **Traffic prioritization (IEEE 802.1p):** allows real-time traffic classification into 8 priority levels mapped to 4 queues

Manageability

- **RMON, XRMON, and sFlow:** provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **Friendly port names:** allow assignment of descriptive names to ports
- **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 the two devices
- **Stacking capability:** single IP address management for a virtual stack of up to 16 switches, including the ProCurve 2500 series, 2510 series, 2600 series, 2610 series, 2810 series, 2900 series, 3400cl series, 3500l series, 4200vl series, 6108, 6200yl-24G-mGBIC, and 6400cl series
- **Find-Fix-and-Inform:** finds and fixes common network problems automatically, then informs administrator
- **Troubleshooting:** ingress/egress port monitoring enables network problem-solving
- **Multiple configuration files:** allow multiple config files to be stored to flash image
- **Dual flash images:** provides independent primary and secondary OS files for backup while upgrading
- **Software updates:** free downloads from the Web

Monitor and diagnostics

- **Port mirroring:** enables traffic on a port to be simultaneously sent to a network analyzer for monitoring

Services

Check www.procurve.eu/services for part numbers and service-level descriptions. For details about services and response times in your area, please contact your local HP sales office.

Accessories

ProCurve Gigabit-SX-LC Mini-GBIC (J4858C)

ProCurve Gigabit-LX-LC Mini-GBIC (J4859C)

ProCurve Gigabit-LH-LC Mini-GBIC (J4860C)

ProCurve Gigabit 1000Base-T Mini-GBIC (J8177B)

ProCurve 100-FX SFP-LC Transceiver (J9054B)

ProCurve 600 Redundant External Power Supply (J8168A)

ProCurve 610 External Power Supply (J8169A)

ProCurve Manager 2.3

ProCurve Manager Plus 2.3 upgrade from ProCurve Manager Plus 1.6 or newer (J9056A)

ProCurve Manager Plus 2.3 50-device license (J9057A)

ProCurve Manager Plus 2.3 +100-device license (J9058A)

ProCurve Manager Plus 2.3 unlimited-device license (J9059A)

ProCurve Identity Driven Manager 2.2 base product—500-user license (J9012A)

ProCurve Identity Driven Manager 2.2 base product (upgrade from 1.0) (J9013A)

ProCurve Identity Driven Manager 2.2—add 2,000 users license (J9014A)

ProCurve Network Immunity Manager 1.0 50-device license (J9060A)

ProCurve Network Immunity Manager 1.0 +100-device license (J9061A)

ProCurve Network Immunity Manager 1.0 unlimited-device license (J9062A)

ProCurve Switch 2610 Series

Specifications



	ProCurve Switch 2610-24 (J9085A)	ProCurve Switch 2610-48 (J9088A)
Ports	24 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX) Media type: Auto-MDIX Duplex: half or full 1 RJ-45 serial console port 2 auto-sensing 10/100/1000 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T) Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only 2 open mini-GBIC (SFP) slots	48 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX) Media type: Auto-MDIX Duplex: half or full 1 RJ-45 serial console port 2 auto-sensing 10/100/1000 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T) Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only 2 open mini-GBIC (SFP) slots
Physical characteristics		
Dimensions (D x W x H)	23.62 x 44.2 x 4.39 cm (9.3 x 17.4 x 1.73 in.) (1U height)	23.62 x 44.2 x 4.39 cm (9.3 x 17.4 x 1.73 in.) (1U height)
Weight (fully loaded)	4.63 kg (10.2 lb.)	4.88 kg (10.75 lb.)
Memory and processor		
Processor	MIPS @ 300 MHz	MIPS @ 300 MHz
Flash	16 MB	16 MB
SDRAM	128 MB	128 MB
Packet buffer size	1 MB	2 MB
Mounting	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
Performance		
Latency		
100 Mb	<4.1 μ s (LIFO)	<6.2 μ s (LIFO)
1000 Mb	<2.9 μ s (LIFO)	<4.4 μ s (LIFO)
Throughput	Up to 9.5 million pps	Up to 13.0 million pps
Routing/Switching capacity	12.8 Gbps	17.6 Gbps
MAC address table size	8,000 entries	8,000 entries
Environment		
Operating temperature	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)
Operating relative humidity	15% to 95% @ 40°C (104°F), non-condensing	15% to 95% @ 40°C (104°F), non-condensing
Non-operating/Storage temperature	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Non-operating/Storage relative humidity	15% to 90% @ 65°C (149°F), non-condensing	15% to 90% @ 65°C (149°F), non-condensing
Altitude	Up to 3 km (10,000 ft.)	Up to 3 km (10,000 ft.)
Acoustic	Power: 0 dB, Pressure: 0 dB No Fan	Power: 45 dB, Pressure: 36.2 dB; DIN 45635T.19 per ISO 7779
Electrical characteristics		
Maximum heat dissipation	149.81 kJ/hr (142 BTU/hr)	300.67 kJ/hr (285 BTU/hr)
Voltage	100–127 VAC/200–240 VAC	100–127 VAC/200–240 VAC
Current	0.8 A/0.4 A	1.3 A/0.8 A
Power consumption	41 W	66 W
Frequency	50/60 Hz	50/60 Hz
Safety	CSA 22.2 No. 60950; UL 60950; IEC 60950; EN 60950	
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	
Immunity		
EN	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD	IEC 61000-4-2; 4 kV CD, 8 kV AD
Radiated	IEC 61000-4-3; 3 V/m	IEC 61000-4-3; 3 V/m
EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
Surge	IEC 61000-4-5; 1 kV/2 kV AC	IEC 61000-4-5; 1 kV/2 kV AC
Conducted	IEC 61000-4-6; 3 V	IEC 61000-4-6; 3 V
Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
Management	ProCurve Manager Plus; ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)	

ProCurve Switch 2610 Series

Specifications (continued)



ProCurve Switch 2610-24 (J9085A)		ProCurve Switch 2610-48 (J9088A)	
Standards and protocols (applies to all products)	Device management HTML and telnet management	RFC 1542 BOOTP Extensions RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 2131 DHCP RFC 3046 DHCP Relay Agent Information Option	Network management IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 3164 BSD syslog Protocol RFC 3176 sFlow ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3
	General protocols IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1v VLAN classification by Protocol and Port IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3af Power over 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 951 BOOTP	IP multicast RFC 3376 IGMPv3 MIBs RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2021 RMONv2 MIB RFC 2096 IP Forwarding Table MIB RFC 2613 SMON MIB RFC 2618 RADIUS Client 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 2863 The Interfaces Group MIB	Security IEEE 802.1X Port Based Network Access Control RFC 1492 TACACS+ Secure Sockets Layer (SSL) SSHv1/SSHv2 Secure Shell

ProCurve Switch 2610 Series

Specifications



	ProCurve Switch 2610-24/12PWR (J9086A)	ProCurve Switch 2610-24-PWR (J9087A)	ProCurve Switch 2610-48-PWR (J9089A)
Ports	24 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX) Media type: Auto-MDIX Duplex: half or full 1 RJ-45 serial console port 2 auto-sensing 10/100/1000 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T) Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only 2 open mini-GBIC (SFP) slots	24 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX) Media type: Auto-MDIX Duplex: half or full 1 RJ-45 serial console port 2 auto-sensing 10/100/1000 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T) Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only 2 open mini-GBIC (SFP) slots	48 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX) Media type: Auto-MDIX Duplex: half or full 1 RJ-45 serial console port 2 auto-sensing 10/100/1000 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T) Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only 2 open mini-GBIC (SFP) slots
Physical characteristics			
Dimensions (D x W x H)	23.62 x 44.2 x 4.39 cm (9.3 x 17.4 x 1.73 in.) (1U height)	31.75 x 44.2 x 4.39 cm (12.5 x 17.4 x 1.73 in.) (1U height)	34.29 x 44.2 x 4.39 cm (13.5 x 17.4 x 1.73 in.) (1U height)
Weight (fully loaded)	3.4 kg (7.5 lb.)	6.83 kg (15.05 lb.)	7.58 kg (16.7 lb.)
Memory and processor			
Processor	MIPS @ 300 MHz	MIPS @ 300 MHz	MIPS @ 300 MHz
Flash	16 MB	16 MB	16 MB
SDRAM	128 MB	128 MB	128 MB
Packet buffer size	1 MB	1 MB	2 MB
Mounting	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only		
Performance			
Latency			
100 Mb	<4.1 µs (LIFO)	<4.1 µs (LIFO)	<6.2 µs (LIFO)
1000 Mb	<2.9 µs (LIFO)	<2.9 µs (LIFO)	<4.4 µs (LIFO)
Throughput	Up to 9.5 million pps	Up to 9.5 million pps	Up to 13.0 million pps
Routing/Switching capacity	12.8 Gbps	12.8 Gbps	17.6 Gbps
MAC address table size	8,000 entries	8,000 entries	8,000 entries
Environment			
Operating temperature	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)
Operating relative humidity	15% to 95% @ 40°C (104°F), non-condensing	15% to 95% @ 40°C (104°F), non-condensing	15% to 95% @ 40°C (104°F), non-condensing
Non-operating/Storage temperature	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Non-operating/Storage relative humidity	15% to 90% @ 65°C (149°F), non-condensing	15% to 90% @ 65°C (149°F), non-condensing	15% to 90% @ 65°C (149°F), non-condensing
Altitude	Up to 3 km (10,000 ft.)	Up to 3 km (10,000 ft.)	Up to 3 km (10,000 ft.)
Acoustic	Power: 46 dB, Pressure: 38.4 dB; DIN 45635T.19 per ISO 7779	Power: 62 dB, Pressure: 53 dB; DIN 45635T.19 per ISO 7779	Power: 59 dB, Pressure: 53.2 dB; DIN 45635T.19 per ISO 7779
Electrical characteristics			
Maximum heat dissipation	190.96 kJ/hr (181 BTU/hr), (Switch only BTU/hr—181, combined switch + max PoE devices at 15.4 W—827 BTU/hr)	432.55 kJ/hr (410 BTU/hr), (Switch only BTU/hr—410, combined switch + max PoE devices at 15.4 W—2281 BTU/hr)	432.55 kJ/hr (410 BTU/hr), (Switch only BTU/hr—410, combined switch + max PoE devices at 15.4 W—2281 BTU/hr)
Voltage	100–127 VAC/200–240 VAC	100–127 VAC/200–240 VAC	100–127 VAC/200–240 VAC
Current	3.3/1.7 A	7.0/3.5 A	7.0/3.5 A
Power consumption	62 W without PoE; 189 W with PoE	77 W without PoE; 527 W with PoE	96 W without PoE; 590 W with PoE
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Safety	CSA 22.2 No. 60950; UL 60950; IEC 60950; EN 60950		
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A		
Immunity			
EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD	IEC 61000-4-2; 4 kV CD, 8 kV AD	IEC 61000-4-2; 4 kV CD, 8 kV AD
Radiated	IEC 61000-4-3; 3 V/m	IEC 61000-4-3; 3 V/m	IEC 61000-4-3; 3 V/m
EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
Surge	IEC 61000-4-5; 1 kV/2 kV AC	IEC 61000-4-5; 1 kV/2 kV AC	IEC 61000-4-5; 1 kV/2 kV AC
Conducted	IEC 61000-4-6; 3 V	IEC 61000-4-6; 3 V	IEC 61000-4-6; 3 V
Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz	IEC 61000-4-8; 1 A/m, 50 or 60 Hz	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
Management	ProCurve Manager Plus; ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)		

ProCurve Switch 2610 Series

Specifications (continued)



ProCurve Switch 2610-24/12PWR (J9086A)



ProCurve Switch 2610-24-PWR (J9087A)



ProCurve Switch 2610-48-PWR (J9089A)

Standards and protocols (applies to all products)

Device management

HTML and telnet management

General protocols

IEEE 802.1D MAC Bridges
IEEE 802.1p Priority
IEEE 802.1Q VLANs
IEEE 802.1v VLAN classification by Protocol and Port
IEEE 802.1w Rapid Reconfiguration of Spanning Tree
IEEE 802.3ad Link Aggregation Control Protocol (LACP)
IEEE 802.3af Power over 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 951 BOOTP

RFC 1542 BOOTP Extensions

RFC 2030 Simple Network Time Protocol (SNTP) v4

RFC 2131 DHCP

RFC 3046 DHCP Relay Agent Information Option

IP multicast

RFC 3376 IGMPv3

MIBs

RFC 1213 MIB II
RFC 1493 Bridge MIB
RFC 2021 RMONv2 MIB
RFC 2096 IP Forwarding Table MIB
RFC 2613 SMON MIB
RFC 2618 RADIUS Client 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 2863 The Interfaces Group MIB

Network management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
RFC 3164 BSD syslog Protocol
RFC 3176 sFlow
ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
SNMPv1/v2c/v3

Security

IEEE 802.1X Port Based Network Access Control
RFC 1492 TACACS+
Secure Sockets Layer (SSL)
SSHv1/SSHv2 Secure Shell

For more information

To learn more about ProCurve

Networking, please visit

www.procurve.eu

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