

Technical features	
Ports	20 RJ-45 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full; Media type: Auto-MDIX; 4 dual-personality ports - Each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers); 1 RS-232C DB-9 console port
Rack mounting	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only
Memory and processor	Management Module: Stackable memory and processor: Freescale PowerPC 8540 @ 666 MHz, 4 MB flash, 128 MB compact flash, 256 MB DDR SDRAM
Latency	100 Mb: < 3.4 μ s (LIFO 64-byte packets); 1000 Mb: < 2.9 μ s (LIFO 64-byte packets)
Address table size	10000 entries
Routing/switching capacity	12 Gbps
Throughput	Up to 8.9 million pps (64-byte packets)
Management features	HP ProCurve Manager (included); HP ProCurve Manager Plus; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)
Communications	RFC 1591 DNS (client); HTML and telnet management; IEEE 802.1ad Q-in-Q (Premium License); 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 802.3ad 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; UDLD (Uni-directional Link Detection); RFC 826 ARP; RFC 854 TELNET; RFC 868 Time Protocol; RFC 951 BOOTP; RFC 1058 RIPv1; 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 2453 RIPv2; RFC 2548 (MS-RAS-Vendor only); RFC 3046 DHCP Relay Agent Information Option; RFC 3576 Ext to RADIUS (CoA only); RFC 3768 VRRP (Premium License); RFC 4675 RADIUS VLAN & Priority; RFC 3376 IGMPv3 (host joins only); RFC 3973 Draft 2 PIM Dense Mode (Premium License); RFC 4601 Draft 10 PIM Sparse Mode (Premium License); RFC 1981 IPv6 Path MTU Discovery; RFC 2460 IPv6 Specification; RFC 2710 Multicast Listener Discovery (MLD) for IPv6; RFC 2925 Remote Operations MIB (Ping only); RFC 3019 MLDv1 MIB; RFC 3315 DHCPv6 (client only); 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; RFC 1213 MIB II; RFC 1493 Bridge MIB; RFC 1724 RIPv2 MIB; RFC 1850 OSPFv2 MIB; RFC 2021 RMONv2 MIB; RFC 2096 IP Forwarding Table MIB; 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 2787 VRRP MIB; RFC 2863 The Interfaces Group MIB; RFC 2925 Ping MIB;

	RFC 2328 OSPFv2 (Premium License); RFC 3101 OSPF NSSA; RFC 2474 DiffServ Precedence, including 8 queues/port; RFC 2597 DiffServ Assured Forwarding (AF); RFC 2598 DiffServ Expedited Forwarding (EF); IEEE 802.1X Port Based Network Access Control; RFC 1492 TACACS+; RFC 2865 RADIUS (client only); RFC 2866 RADIUS Accounting; Secure Sockets Layer (SSL); SSHv1/SSHv2 Secure Shell
Power requirements	100 -127 VAC / 200 -240 VAC; 50 /60 Hz
Power availability	1.1 A / 0.6 A
Power consumption	78.7 W
Operating conditions	
Safety	CSA 22.2 No. 60950; UL 60950; IEC 60950; EN 60950
Electromagnetic compatibility	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
Storage temperature range	-40°C to 70°C
Operating humidity range	15% to 95% @ 40°C, non-condensing
Dimensions / weight / warranty	
Product weight	5.4 kg
Warranty	Lifetime warranty: for as long as you own the product, with next-business-day advance replacement (available in most countries)