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8800 Router Series

The HP 8800 Routers series provide wire-speed 10 Gigabit ethernet forwarding as well as carrier-class services, security and availability to meet the robust demands of service and application providers.

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Overview Features Models Accessories Services & Support Resources

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HP 8800 Router Series

8812 Router Chassis (JC150B)

8808-V Router Chassis (JC149B)

8805 Router Chassis (JC148B)

General specifications

Emissions

Management

Standards and protocols

	HP 8812 Router Chassis (JC150B)	HP 8808-V Router Chassis (JC149B)	HP 8805 Router Chassis (JC148B)
Ports	12 I/O module slots 2 MPU (for management modules) slots	8 I/O module slots 2 MPU (for management modules) slots	5 I/O module slots 2 MPU (for management modules) slots
Physical characteristics	17.4(w) x 17.72(d) x 29.65(h) in (44.2 x 45.01 x 75.31 cm) (17U height)	17.4(w) x 17.72(d) x 34.88(h) in (44.2 x 45.01 x 88.6 cm) (21U height)	17.4(w) x 17.72(d) x 19.13(h) in (44.2 x 45.01 x 48.59 cm) (11U height)
Full configuration weight	264.55 lb (120 kg)	242.5 lb (110 kg)	187.39 lb (85 kg)
Mounting	EIA standard 19 in. rack	EIA standard 19 in. rack	EIA standard 19 in. rack
Performance			
Throughput	up to 864 million pps	up to 576 million pps	up to 360 million pps
Routing/Switching capacity	1.4 Tbps	960 Gbps	600 Gbps
Routing table size	3000000 entries	3000000 entries	3000000 entries
Environment			
Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Operating relative humidity	10% to 90%, noncondensing	10% to 90%, noncondensing	10% to 90%, noncondensing
Nonoperating/Storage temperature	-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 (-40°C to 70°C)
Nonoperating/Storage relative humidity	5% to 95%, noncondensing	5% to 95%, noncondensing	5% to 95%, noncondensing
Electrical characteristics			
Maximum heat dissipation	11935 BTU/hr (12591.43 kJ/hr)	11935 BTU/hr (12591.43 kJ/hr)	6820 BTU/hr (7195.1 kJ/hr)
Voltage	100-120/200-240 VAC	100-120/200-240 VAC	100-120/200-240 VAC
DC voltage	-48 VDC	-48 VDC	-48 VDC
Maximum power rating	3500 W	3500 W	2000 W
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	CSA 22.2 No. 60950cUL (CSA 22.2 No. 60950)CSA 22.2 No. 60950 3rd editionCSA 22.2 No. 950CSA 950cUL (CSA 950)EN 60950/IEC 60950UL 1950 3rd editionUL 1950UL 60950UL 60950-1CAN/CSA 22.2 No. 60950CAN/CSA 22.2 No. 60950-1AS/NZS 60950EN 609500 Safety Information Technology EquipmentUL 60950CSA 22.2 No. 60950/cULIEC 60950IEC 60950-1EN 60950EN 60950-1CSA 22.2 No. 950-95IEC 60950-1:2001 (with CB Report)CAN/CSA-C22.2 No. 60950-1CSA 60950-1CSA C22.2 60950-1EN 60950-1/A11CSA 22.2 60950-1EN 60950: 2000, ZB and ZC DeviationsIEC 60950: 1999, Corr Feb 2000, all national deviationsAs/NZS 60950:2000, AustraliaUL 60950-1:2003UL 60950-1:2001CSA 22.2 60950-1:2003IEC 60950-1:2001EN 60950-1:2001CSA 22.2-60950AS/NZS 60950: 2000 Australia, Russian GOST Safety ApprovalCSA 22.2 No. 950 3rd Edition 1995UL 60950 3rd EditionCAN/CSA 22.2 No. 60950-00/UL 60950 3rd Edition, Safety Information for Technology EquipmentEN 60950/IEC 60950 3rd EditionUL 60950 Standard for the Safety of Information	CSA 22.2 No. 60950cUL (CSA 22.2 No. 60950)CSA 22.2 No. 60950 3rd editionCSA 22.2 No. 950CSA 950cUL (CSA 950)EN 60950/IEC 60950UL 1950 3rd editionUL 1950UL 60950UL 60950-1CAN/CSA 22.2 No. 60950CAN/CSA 22.2 No. 60950-1AS/NZS 60950EN 609500 Safety Information Technology EquipmentUL 60950CSA 22.2 No. 60950/cULIEC 60950IEC 60950-1EN 60950EN 60950-1CSA 22.2 No. 950-95IEC 60950-1:2001 (with CB Report)CAN/CSA-C22.2 No. 60950-1CSA 60950-1CSA C22.2 60950-1EN 60950-1/A11CSA 22.2 60950-1EN 60950: 2000, ZB and ZC DeviationsIEC 60950: 1999, Corr Feb 2000, all national deviationsAs/NZS 60950:2000, AustraliaUL 60950-1:2003UL 60950-1:2001CSA 22.2 60950-1:2003IEC 60950-1:2001EN 60950-1:2001CSA 22.2-60950AS/NZS 60950: 2000 Australia, Russian GOST Safety ApprovalCSA 22.2 No. 950 3rd Edition 1995UL 60950 3rd EditionCAN/CSA 22.2 No. 60950-00/UL 60950 3rd Edition, Safety Information for Technology EquipmentEN 60950/IEC 60950 3rd EditionUL 60950 Standard for the Safety of Information	CSA 22.2 No. 60950cUL (CSA 22.2 No. 60950)CSA 22.2 No. 60950 3rd editionCSA 22.2 No. 950CSA 950cUL (CSA 950)EN 60950/IEC 60950UL 1950 3rd editionUL 1950UL 60950UL 60950-1CAN/CSA 22.2 No. 60950CAN/CSA 22.2 No. 60950-1AS/NZS 60950EN 609500 Safety Information Technology EquipmentUL 60950CSA 22.2 No. 60950/cULIEC 60950IEC 60950-1EN 60950EN 60950-1CSA 22.2 No. 950-95IEC 60950-1:2001 (with CB Report)CAN/CSA-C22.2 No. 60950-1CSA 60950-1CSA C22.2 60950-1EN 60950-1/A11CSA 22.2 60950-1EN 60950: 2000, ZB and ZC DeviationsIEC 60950: 1999, Corr Feb 2000, all national deviationsAs/NZS 60950:2000, AustraliaUL 60950-1:2003UL 60950-1:2001CSA 22.2 60950-1:2003IEC 60950-1:2001EN 60950-1:2001CSA 22.2-60950AS/NZS 60950: 2000 Australia, Russian GOST Safety ApprovalCSA 22.2 No. 950 3rd Edition 1995UL 60950 3rd EditionCAN/CSA 22.2 No. 60950-00/UL 60950 3rd Edition, Safety Information for Technology EquipmentEN 60950/IEC 60950 3rd EditionUL 60950 Standard for the Safety of Information

Notes	Technology Equipment	Technology Equipment	Technology Equipment
	Throughput forwarding performance depends on features enabled	Throughput forwarding performance depends on features enabled	Throughput forwarding performance depends on features enabled

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Emissions

FCC Class A; FCC part 15 Class A; ICE-003, Canadian Radio Interface Regulation; EN 55022/CISPR-22 Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 55022 Class A; CISPR 22; CISPR 22 Class A; EN 55022; EN 55024; CNS 13438 Class B; FCC CFR 47 Part 15; VCCI; ICES-003 (Canada); CISPR 22/A2; EN 55022/A2; ICES-003; AS/NZS CISPR 22; VCCI V-3/2000.04; IEC/EN 61000-3-2; IEC/EN 61000-3-3; EN 55024/A1; IEC 61000:4-2, 4-3, 4-4, 4-5, 4-6, 4-8, 4-11; EMC Directive 89/336/EEC; VCCI (Japan); EN 55022 1998 Class A; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A; EN 300 386; FCC Part 15; CISPR 24; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; CNS 13438 Class A; EN 55024:1998; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; Anatel; ICES-003 Issue 4 Class A; CS-03; FCC Part 68

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Management

IMC - Intelligent Management Center; command-line interface; limited command-line interface; configuration menu; out-of-band management (serial RS-232C); out-of-band management; SNMP Manager; Telnet; RMON1; FTP; in-line and out-of-band; terminal interface (serial RS-232C); modem interface; IEEE 802.3 Ethernet MIB; Ethernet Interface MIB

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Standards and protocols

BGP

- RFC 1267 Border Gateway Protocol 3 (BGP-3)
- RFC 1657 Definitions of Managed Objects for BGPv4
- RFC 1771 BGPv4
- RFC 1772 Application of the BGP
- RFC 1773 Experience with the BGP-4 Protocol
- RFC 1774 BGP-4 Protocol Analysis
- RFC 1965 BGP4 confederations
- RFC 1997 BGP Communities Attribute
- RFC 1998 PPP Gandalf FZA Compression Protocol
- RFC 2385 BGP Session Protection via TCP MD5
- RFC 2439 BGP Route Flap Damping
- RFC 2796 BGP Route Reflection
- RFC 2842 Capability Advertisement with BGP-4
- RFC 2858 BGP-4 Multi-Protocol Extensions
- RFC 2918 Route Refresh Capability

Denial of service protection

- CPU DoS Protection
- Rate Limiting by ACLs

Device management

- RFC 1155 Structure and Mgmt Information (SMIv1)
- RFC 1157 SNMPv1/v2c
- RFC 1305 NTPv3
- RFC 1901 (Community based SNMPv2)
- RFC 1901-1907 SNMPv2c, SMIv2 and Revised MIB-II
- RFC 1902 (SNMPv2)
- RFC 1908 (SNMP v1/2 Coexistence)
- RFC 1945 Hypertext Transfer Protocol -- HTTP/1.0
- RFC 2068 Hypertext Transfer Protocol -- HTTP/1.1
- RFC 2271 FrameWork
- RFC 2452 MIB for TCP6
- RFC 2454 MIB for UDP6
- RFC 2573 (SNMPv3 Applications)
- RFC 2576 (Coexistence between SNMP V1, V2, V3)
- RFC 2578-2580 SMIv2
- RFC 2579 (SMIv2 Text Conventions)
- RFC 2580 (SMIv2 Conformance)
- RFC 2819 (RMON groups Alarm, Event, History and Statistics only)
- RFC 2819 RMON
- RFC 3410 (Management Framework)
- RFC 3416 (SNMP Protocol Operations v2)
- RFC 3417 (SNMP Transport Mappings)
- Multiple Configuration Files
- Multiple Software Images
- SNMP v3 and RMON RFC support
- SSHv1/SSHv2 Secure Shell
- TACACS/TACACS+

General protocols

- IEEE 802.1ad Q-in-Q
- IEEE 802.1ad Q-in-Q
- IEEE 802.1ag Service Layer OAM
- IEEE 802.1ah Provider Backbone Bridges
- IEEE 802.1AX-2008 Link Aggregation
- IEEE 802.1D MAC Bridges
- IEEE 802.1p Priority
- IEEE 802.1Q (GVRP)
- IEEE 802.1Q VLANs
- IEEE 802.1s (MSTP)
- IEEE 802.1s Multiple Spanning Trees
- IEEE 802.1v VLAN classification by Protocol and Port
- IEEE 802.1w Rapid Reconfiguration of Spanning Tree
- IEEE 802.1X PAE
- IEEE 802.3 Type 10BASE-T
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3ac (VLAN Tagging Extension)
- IEEE 802.3ad Link Aggregation (LAG)
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- IEEE 802.3ae 10-Gigabit Ethernet
- IEEE 802.3ag Ethernet OAM
- IEEE 802.3ah Ethernet in First Mile over Point to Point Fiber - EFMF
- IEEE 802.3i 10BASE-T
- IEEE 802.3u 100BASE-X
- IEEE 802.3x Flow Control
- IEEE 802.3z 1000BASE-X
- RFC 768 UDP
- RFC 783 TFTP Protocol (revision 2)
- RFC 791 IP
- RFC 792 ICMP
- RFC 793 TCP

- RFC 826 ARP
- RFC 854 TELNET
- RFC 855 Telnet Option Specification
- RFC 856 TELNET
- RFC 857 Telnet Echo Option
- RFC 858 Telnet Suppress Go Ahead Option
- RFC 894 IP over Ethernet
- RFC 896 Congestion Control in IP/TCP Internetworks
- RFC 906 TFTP Bootstrap
- RFC 925 Multi-LAN Address Resolution
- RFC 950 Internet Standard Subnetting Procedure
- RFC 951 BOOTP
- RFC 959 File Transfer Protocol (FTP)
- RFC 1006 ISO transport services on top of the TCP: Version 3
- RFC 1027 Proxy ARP
- RFC 1034 Domain Concepts and Facilities
- RFC 1035 Domain Implementation and Specification
- RFC 1042 IP Datagrams
- RFC 1058 RIPv1
- RFC 1071 Computing the Internet Checksum
- RFC 1091 Telnet Terminal-Type Option
- RFC 1093 NSFNET routing architecture
- RFC 1122 Host Requirements
- RFC 1141 Incremental updating of the Internet checksum
- RFC 1142 OSI IS-IS Intra-domain Routing Protocol
- RFC 1144 Compressing TCP/IP headers for low-speed serial links
- RFC 1171 Point-to-Point Protocol for the transmission of multi-protocol datagrams over Point-to-Point links
- RFC 1195 OSI ISIS for IP and Dual Environments
- RFC 1213 Management Information Base for Network Management of TCP/IP-based internets
- RFC 1253 (OSPF v2)
- RFC 1256 ICMP Router Discovery Protocol (IRDP)
- RFC 1293 Inverse Address Resolution Protocol
- RFC 1305 NTPv3
- RFC 1315 Management Information Base for Frame Relay DTEs
- RFC 1321 The MD5 Message-Digest Algorithm
- RFC 1332 The PPP Internet Protocol Control Protocol (IPCP)
- RFC 1333 PPP Link Quality Monitoring
- RFC 1334 PPP Authentication Protocols (PAP)
- RFC 1349 Type of Service
- RFC 1350 TFTP Protocol (revision 2)
- RFC 1377 The PPP OSI Network Layer Control Protocol (OSINLCP)
- RFC 1381 SNMP MIB Extension for X.25 LAPB
- RFC 1389 RIPv2 MIB Extension
- RFC 1471 The Definitions of Managed Objects for the Link Control Protocol of the Point-to-Point Protocol
- RFC 1472 The Definitions of Managed Objects for the Security Protocols of the Point-to-Point Protocol
- RFC 1490 Multiprotocol Interconnect over Frame Relay
- RFC 1519 CIDR
- RFC 1531 Dynamic Host Configuration Protocol
- RFC 1533 DHCP Options and BOOTP Vendor Extensions
- RFC 1534 DHCP/BOOTP Interoperation
- RFC 1541 DHCP
- RFC 1542 BOOTP Extensions
- RFC 1542 Clarifications and Extensions for the Bootstrap Protocol
- RFC 1552 The PPP Internetworking Packet Exchange Control Protocol (IPXCP)
- RFC 1577 Classical IP and ARP over ATM
- RFC 1631 NAT
- RFC 1638 PPP Bridging Control Protocol (BCP)
- RFC 1661 The Point-to-Point Protocol (PPP)
- RFC 1662 PPP in HDLC-like Framing
- RFC 1695 Definitions of Managed Objects for ATM Management Version 8.0 using SMlv2
- RFC 1701 Generic Routing Encapsulation
- RFC 1702 Generic Routing Encapsulation over IPv4 networks
- RFC 1721 RIP-2 Analysis
- RFC 1722 RIP-2 Applicability
- RFC 1723 RIP v2
- RFC 1812 IPv4 Routing
- RFC 1829 The ESP DES-CBC Transform
- RFC 1877 PPP Internet Protocol Control Protocol Extensions for Name Server Addresses
- RFC 1944 Benchmarking Methodology for Network Interconnect Devices
- RFC 1945 Hypertext Transfer Protocol -- HTTP/1.0
- RFC 1973 PPP in Frame Relay
- RFC 1974 PPP Stac LZS Compression Protocol
- RFC 1981 Path MTU Discovery for IP version 6
- RFC 1990 The PPP Multilink Protocol (MP)
- RFC 1994 PPP Challenge Handshake Authentication Protocol (CHAP)
- RFC 2082 RIP-2 MD5 Authentication
- RFC 2091 Trigger RIP
- RFC 2104 HMAC: Keyed-Hashing for Message Authentication
- RFC 2131 DHCP
- RFC 2132 DHCP Options and BOOTP Vendor Extensions
- RFC 2138 Remote Authentication Dial In User Service (RADIUS)
- RFC 2205 Resource ReSerVation Protocol (RSVP) - Version 1 Functional Specification
- RFC 2209 Resource ReSerVation Protocol (RSVP) -- Version 1 Message Processing Rules
- RFC 2236 IGMP Snooping
- RFC 2246 The TLS Protocol Version 1.0
- RFC 2251 Lightweight Directory Access Protocol (v3)
- RFC 2252 Lightweight Directory Access Protocol (v3): Attribute Syntax Definitions
- RFC 2280 Routing Policy Specification Language (RPSL)
- RFC 2283 MBGP
- RFC 2284 EAP over LAN
- RFC 2338 VRRP
- RFC 2364 PPP Over AAL5
- RFC 2374 An Aggregatable Global Unicast Address Format
- RFC 2451 The ESP CBC-Mode Cipher Algorithms
- RFC 2453 RIPv2
- RFC 2510 Internet X.509 Public Key Infrastructure Certificate Management Protocols
- RFC 2511 Internet X.509 Certificate Request Message Format
- RFC 2516 A Method for Transmitting PPP Over Ethernet (PPPoE)
- RFC 2529 Transmission of IPv6 over IPv4 Domains without Explicit Tunnels
- RFC 2616 HTTP Compatibility v1.1
- RFC 2622 Routing Policy Specification Language (RPSL)
- RFC 2644 Directed Broadcast Control
- RFC 2661 L2TP
- RFC 2663 NAT Terminology and Considerations
- RFC 2684 Multiprotocol Encapsulation over ATM Adaptation Layer 5
- RFC 2694 DNS extensions to Network Address Translators (DNS_ALG)
- RFC 2702 Requirements for Traffic Engineering Over MPLS
- RFC 2716 PPP EAP TLS Authentication Protocol
- RFC 2747 RSVP Cryptographic Authentication

- RFC 2763 Dynamic Name-to-System ID mapping support
- RFC 2765 Stateless IP/ICMP Translation Algorithm (SIIT)
- RFC 2766 Network Address Translation - Protocol Translation (NAT-PT)
- RFC 2767 Dual Stacks IPv4 & IPv6
- RFC 2784 Generic Routing Encapsulation (GRE)
- RFC 2787 Definitions of Managed Objects for VRRP
- RFC 2865 Remote Authentication Dial In User Service (RADIUS)
- RFC 2866 RADIUS Accounting
- RFC 2868 RADIUS Attributes for Tunnel Protocol Support
- RFC 2869 RADIUS Extensions
- RFC 2961 RSVP Refresh Overhead Reduction Extensions
- RFC 2966 Domain-wide Prefix Distribution with Two-Level IS-IS
- RFC 2973 IS-IS Mesh Groups
- RFC 2993 Architectural Implications of NAT
- RFC 3022 Traditional IP Network Address Translator (Traditional NAT)
- RFC 3027 Protocol Complications with the IP Network Address Translator
- RFC 3031 Multiprotocol Label Switching Architecture
- RFC 3032 MPLS Label Stack Encoding
- RFC 3036 LDP Specification
- RFC 3046 DHCP Relay Agent Information Option
- RFC 3063 MPLS Loop Prevention Mechanism
- RFC 3065 Support AS confederation
- RFC 3137 OSPF Stub Router Advertisement
- RFC 3209 RSVP-TE Extensions to RSVP for LSP Tunnels
- RFC 3210 Applicability Statement for Extensions to RSVP for LSP-Tunnels
- RFC 3212 Constraint-Based LSP setup using LDP (CR-LDP)
- RFC 3214 LSP Modification Using CR-LDP
- RFC 3215 LDP State Machine
- RFC 3246 Expedited Forwarding PHB
- RFC 3268 Advanced Encryption Standard (AES) Ciphersuites for Transport Layer Security (TLS)
- RFC 3277 IS-IS Transient Blackhole Avoidance
- RFC 3279 Algorithms and Identifiers for the Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile
- RFC 3280 Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile
- RFC 3392 Support BGP capabilities advertisement
- RFC 3410 Applicability Statements for SNMP
- RFC 3416 Protocol Operations for SNMP
- RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP)
- RFC 3479 Fault Tolerance for the Label Distribution Protocol (LDP)
- RFC 3487 Graceful Restart Mechanism for LDP
- RFC 3509 OSPF ABR Behavior
- RFC 3526 More Modular Exponential (MODP) Diffie-Hellman groups for Internet Key Exchange (IKE)
- RFC 3564 Requirements for Support of Differentiated Services-aware MPLS Traffic Engineering
- RFC 3567 Intermediate System to Intermediate System (IS-IS) Cryptographic Authentication
- RFC 3602 The AES-CBC Cipher Algorithm and Its Use with IPsec
- RFC 3619 Ethernet Automatic Protection Switching (EAPS)
- RFC 3623 Graceful OSPF Restart
- RFC 3704 Unicast Reverse Path Forwarding (URPF)
- RFC 3706 A Traffic-Based Method of Detecting Dead Internet Key Exchange (IKE) Peers
- RFC 3768 Virtual Router Redundancy Protocol (VRRP)
- RFC 3784 ISIS TE support
- RFC 3786 Extending the Number of IS-IS LSP Fragments Beyond the 256 Limit
- RFC 3811 Definitions of Textual Conventions (TCs) for Multiprotocol Label Switching (MPLS) Management
- RFC 3812 Multiprotocol Label Switching (MPLS) Traffic Engineering (TE) Management Information Base (MIB)
- RFC 3847 Restart signaling for IS-IS
- RFC 4213 Basic IPv6 Transition Mechanisms
- IP Ping

IP multicast

- RFC 1112 IGMP
- RFC 2236 IGMPv2
- RFC 2283 Multiprotocol Extensions for BGP-4
- RFC 2362 PIM Sparse Mode
- RFC 2934 Protocol Independent Multicast MIB for IPv4
- RFC 3376 IGMPv3
- RFC 3376 IGMPv3 (host joins only)
- RFC 3569 An Overview of Source-Specific Multicast (SSM)
- RFC 3618 Multicast Source Discovery Protocol (MSDP)
- RFC 3973 Draft 2 PIM Dense Mode
- RFC 3973 Draft 2 PIM Dense Mode
- RFC 3973 PIM Dense Mode
- RFC 4601 Draft 10 PIM Sparse Mode
- RFC 4605 IGMP/MLD Proxying

IPv6

- RFC 1350 TFTP
- RFC 1881 IPv6 Address Allocation Management
- RFC 1886 DNS Extension for IPv6
- RFC 1887 IPv6 Unicast Address Allocation Architecture
- RFC 1981 IPv6 Path MTU Discovery
- RFC 2080 RIPng for IPv6
- RFC 2292 Advanced Sockets API for IPv6
- RFC 2373 IPv6 Addressing Architecture
- RFC 2375 IPv6 Multicast Address Assignments
- RFC 2460 IPv6 Specification
- RFC 2461 IPv6 Neighbor Discovery
- RFC 2462 IPv6 Stateless Address Auto-configuration
- RFC 2463 ICMPv6
- RFC 2464 Transmission of IPv6 over Ethernet Networks
- RFC 2472 IP Version 6 over PPP
- RFC 2473 Generic Packet Tunneling in IPv6
- RFC 2475 IPv6 DiffServ Architecture
- RFC 2529 Transmission of IPv6 Packets over IPv4
- RFC 2545 Use of MP-BGP-4 for IPv6
- RFC 2553 Basic Socket Interface Extensions for IPv6
- RFC 2710 Multicast Listener Discovery (MLD) for IPv6
- RFC 2711 IPv6 Router Alert Option
- RFC 2740 OSPFv3 for IPv6
- RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers
- RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only)
- RFC 2925 Remote Operations MIB (Ping only)
- RFC 3056 Connection of IPv6 Domains via IPv4 Clouds
- RFC 3162 RADIUS and IPv6
- RFC 3306 Unicast-Prefix-based IPv6 Multicast Addresses

- RFC 3307 IPv6 Multicast Address Allocation
- RFC 3315 DHCPv6 (client and relay)
- RFC 3315 DHCPv6 (client only)
- RFC 3484 Default Address Selection for IPv6
- RFC 3493 Basic Socket Interface Extensions for IPv6
- RFC 3513 IPv6 Addressing Architecture
- RFC 3542 Advanced Sockets API for IPv6
- RFC 3587 IPv6 Global Unicast Address Format
- RFC 3596 DNS Extension for IPv6
- RFC 3810 MLDv2 (host joins only)
- RFC 3810 MLDv2 for IPv6
- RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6
- RFC 4022 MIB for TCP
- RFC 4113 MIB for UDP
- RFC 4251 SSHv6 Architecture
- RFC 4252 SSHv6 Authentication
- RFC 4252 SSHv6 Transport Layer
- RFC 4253 SSHv6 Transport Layer
- RFC 4254 SSHv6 Connection
- RFC 4291 IP Version 6 Addressing Architecture
- 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 5095 Deprecation of Type 0 Routing Headers in IPv6
- RFC 5340 OSPF for IPv6
- RFC 5340 OSPFv3 for IPv6
- RFC 5722 Handling of Overlapping IPv6 Fragments

MIBs

- IEEE 8021-PAE-MIB
- IEEE 8023-LAG-MIB
- RFC 1156 (TCP/IP MIB)
- RFC 1212 Concise MIB Definitions
- RFC 1213 MIB II
- RFC 1229 Interface MIB Extensions
- RFC 1286 Bridge MIB
- RFC 1493 Bridge MIB
- RFC 1573 SNMP MIB II
- RFC 1643 Ethernet MIB
- RFC 1650 Ethernet-Like MIB
- RFC 1657 BGP-4 MIB
- RFC 1724 RIPv2 MIB
- RFC 1757 Remote Network Monitoring MIB
- RFC 1850 OSPFv2 MIB
- RFC 1907 SNMPv2 MIB
- RFC 2011 SNMPv2 MIB for IP
- RFC 2012 SNMPv2 MIB for TCP
- RFC 2013 SNMPv2 MIB for UDP
- RFC 2021 RMONv2 MIB
- RFC 2096 IP Forwarding Table MIB
- RFC 2233 Interface MIB
- RFC 2233 Interfaces MIB
- RFC 2273 SNMP-NOTIFICATION-MIB
- RFC 2452 IPV6-TCP-MIB
- RFC 2454 IPV6-UDP-MIB
- RFC 2465 IPV6 MIB
- RFC 2466 ICMPv6 MIB
- RFC 2571 SNMP Framework MIB
- RFC 2572 SNMP-MPD MIB
- RFC 2573 SNMP-Notification MIB
- RFC 2573 SNMP-Target MIB
- RFC 2574 SNMP USM 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 2688 MAU-MIB
- RFC 2737 Entity MIB (Version 2)
- RFC 2787 VRRP MIB
- RFC 2819 RMON MIB
- RFC 2863 The Interfaces Group MIB
- RFC 2925 Ping MIB
- RFC 2932IP (Multicast Routing MIB)
- RFC 2933 IGMP MIB
- RFC 3273 HC-RMON MIB
- RFC 3414 SNMP-User based-SM MIB
- RFC 3415 SNMP-View based-ACM MIB
- RFC 3418 MIB for SNMPv3
- RFC 3621 Power Ethernet MIB
- RFC 3813 MPLS LSR MIB
- RFC 3814 MPLS FTN MIB
- RFC 3815 MPLS LDP MIB
- RFC 3826 AES for SNMP's USM MIB
- RFC 4113 UDP MIB
- RFC 4133 Entity MIB (Version 3)
- RFC 4221 MPLS FTN MIB
- LLDP-EXT-DOT1-MIB
- LLDP-EXT-DOT3-MIB
- LLDP-MIB

Network management

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
- IEEE 802.1D (STP)
- RFC 1098 A Simple Network Management Protocol (SNMP)
- RFC 1155 Structure of Management Information
- RFC 1157 SNMPv1
- RFC 1215 SNMP Generic traps
- RFC 1757 RMON 4 groups: Stats, History, Alarms and Events
- RFC 1901 SNMPv2 Introduction
- RFC 1902 SNMPv2 Structure
- RFC 1903 SNMPv2 Textual Conventions
- RFC 1904 SNMPv2 Conformance
- RFC 1905 SNMPv2 Protocol Operations
- RFC 1906 SNMPv2 Transport Mappings
- RFC 1918 Private Internet Address Allocation
- RFC 2272 SNMPv3 Management Protocol
- RFC 2273 SNMPv3 Applications
- RFC 2274 USM for SNMPv3
- RFC 2275 VACM for SNMPv3
- RFC 2570 SNMPv3 Overview
- RFC 2571 SNMP Management Frameworks
- RFC 2572 SNMPv3 Message Processing

- RFC 2573 SNMPv3 Applications
- RFC 2574 SNMPv3 User-based Security Model (USM)
- RFC 2575 SNMPv3 View-based Access Control Model (VACM)
- RFC 2575 VACM for SNMP
- RFC 2576 Coexistence between SNMP versions
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- RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)
- RFC 3164 BSD syslog Protocol
- 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)
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- RFC 1245 OSPF protocol analysis
- RFC 1246 Experience with OSPF
- RFC 1253 OSPFv2 MIB
- RFC 1583 OSPFv2
- RFC 1587 OSPF NSSA
- RFC 1745 OSPF Interactions
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- RFC 1850 OSPFv2 Management Information Base (MIB), traps
- RFC 2178 OSPFv2
- RFC 2328 OSPFv2
- RFC 2370 OSPF Opaque LSA Option
- RFC 3101 OSPF NSSA
- RFC 3623 Graceful OSPF Restart
- RFC 5340 OSPF for IPv6
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- IEEE 802.1P (CoS)
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- RFC 2474 DS Field in the IPv4 and IPv6 Headers
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- RFC 2475 DiffServ Architecture
- RFC 2597 DiffServ Assured Forwarding (AF)
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- IEEE 802.1X Port Based Network Access Control
- RFC 1321 The MD5 Message-Digest Algorithm
- RFC 1492 TACACS+
- RFC 2082 RIP-2 MD5 Authentication
- RFC 2104 Keyed-Hashing for Message Authentication
- RFC 2138 RADIUS Authentication
- RFC 2139 RADIUS Accounting
- RFC 2209 RSVP-Message Processing
- RFC 2246 Transport Layer Security (TLS)
- RFC 2459 Internet X.509 Public Key Infrastructure Certificate and CRL Profile
- RFC 2548 Microsoft Vendor-specific RADIUS Attributes
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- RFC 2869 RADIUS Extensions
- RFC 3567 Intermediate System (IS) to IS Cryptographic Authentication
- RFC 3576 Dynamic Authorization Extensions to RADIUS
- RFC 3579 RADIUS Support For Extensible Authentication Protocol (EAP)
- RFC 3580 IEEE 802.1X RADIUS
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- RFC 2403 - HMAC-MD5-96
- RFC 2404 - HMAC-SHA1-96
- RFC 2405 - DES-CBC Cipher algorithm
- RFC 2407 - Domain of interpretation
- RFC 2547 BGP/MPLS VPNs
- RFC 2764 A Framework for IP Based Virtual Private Networks
- RFC 2796 BGP Route Reflection - An Alternative to Full Mesh IBGP
- RFC 2842 Capabilities Advertisement with BGP-4
- RFC 2858 Multiprotocol Extensions for BGP-4
- RFC 2917 A Core MPLS IP VPN Architecture
- RFC 2918 Route Refresh Capability for BGP-4
- RFC 3107 Carrying Label Information in BGP-4
- RFC 3948 - UDP Encapsulation of IPsec ESP Packets
- RFC 4301 - Security Architecture for the Internet Protocol
- RFC 4302 - IP Authentication Header (AH)
- RFC 4303 - IP Encapsulating Security Payload (ESP)
- RFC 4305 - Cryptographic Algorithm Implementation Requirements for ESP and AH

IPsec

- RFC 1828 IP Authentication using Keyed MD5
- RFC 2401 IP Security Architecture
- RFC 2402 IP Authentication Header
- RFC 2406 IP Encapsulating Security Payload
- RFC 2407 - Domain of interpretation
- RFC 2408 - Internet Security Association and Key Management Protocol (ISAKMP)
- RFC 2409 - The Internet Key Exchange
- RFC 2410 - The NULL Encryption Algorithm and its use with IPsec
- RFC 2411 IP Security Document Roadmap
- RFC 2412 - OAKLEY

- RFC 2865 - Remote Authentication Dial In User Service (RADIUS)

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- RFC 2865 - Remote Authentication Dial In User Service (RADIUS)
- RFC 3748 - Extensible Authentication Protocol (EAP)

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