## C9800-40-K9 Datasheet



## Overview

C9800-40-K9 is the Cisco Catalyst 9800-40 Wireless Controller. Built from the ground-up for the Intent-based networking and Cisco DNA, Cisco Catalyst 9800 Series Wireless Controllers are Cisco IOS® XE based and integrates the RF excellence of Cisco Aironet® access points creating the best-in-class wireless experience for your evolving and growing organization. The Cisco Catalyst 9800 Series Wireless Controllers are built on an open and programmable architecture with built-in security, streaming telemetry and rich analytics. The Cisco Catalyst 9800 Series Wireless Controllers are built on the three pillars of network excellence— always on, secure, and deployed anywhere— which strengthens the network by providing the best wireless experience without compromise, while saving time and money. The Cisco® Catalyst® 9800-40 is a fixed wireless controller with seamless software updates for midsize and large enterprises.

| Model                           | C9800-40-K9   |
|---------------------------------|---|
| Maximum number of access points | Up to 2000  |
| Maximum number of clients       | 32,000  |
| Maximum throughput              | Up to 40 Gbps   |
| Maximum WLANs                   | 4096  |
| Maximum VLANs                   | 4096  |
| Interfaces                      | 4x 10 GE/1 GE SFP+/SFP  |
| Form factor                     | 1RU   |
| License                         | Smart License enabled   |
| Operating system                | Cisco IOS XE  |
| Access points                   | Aironet 802.11ac Wave 1 and Wave 2 access points                    |
| Dimension (W × D × H)           | 17.3 inches $\times$ 19.5 inches $\times$ 1.72 inches               |
|                                 | $(43.94 \text{ cm} \times 49.53 \text{ cm} \times 4.37 \text{ cm})$ |
| Weight                          | 22.8 lb (10.34 kg)  |
|                                 |   |

| (1) | PWR: Power LED                                       | (10)        | SSD: SSD activity LED  |
|-----|--|-------------|--|
| 2   | ALM: Alarm LED                                       | 11)         | RP: 1 GE SFP port (the only SFPs supported on the RP port are GLC-SX-MMD and GLC-LH-SMD) |
| 3   | EN: USB console-enabled LED                          | (12)        | RP: RJ-45 10/100/1000 redundancy Ethernet port   |
| 4   | SP: RJ-45 10/100/1000<br>management Ethernet<br>port | (13)        | USB ports 0 and 1  |
| (5) | LINK: RJ-45 connector<br>LED                         | (14)        | CON: Mini USB console port   |
| 6   | TE1: 1 GE SFP/10 GE<br>SFP+ port 1                   | (15)        | CON: RJ-45 compatible console port   |
| 7   | TE3: 1 GE SFP/10 GE<br>SFP+ port 3                   | <u>16</u>   | HA: High-availability<br>LED   |
| 8   | TE2: 1 GE SFP/10 GE<br>SFP+ port 2                   | <u>(17)</u> | SYS: System LED  |
| 9   | TE0: 1 GE SFP/10 GE<br>SFP+ port 0                   |             |  |

| Model             | Description  |
|-------------------|--|
| LIC-C9800-DTLS-K9 | Cisco Catalyst 9800 Series Wireless Controller DTLS<br>License               |
| C9800-AC-750W R=  | Cisco Catalyst 9800-40 750W AC Power Supply<br>Reverse Air                   |
| GLC-BX-D          | 1000BASE-BX SFP, 1490NM  |
| GLC-BX-U          | 1000BASE-BX SFP, 1310NM  |
| GLC-LH-SMD        | Cisco GLC-LH-SMD 1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM |
| GLC-SX-MMD        | Cisco GLC-SX-MMD 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM         |

| GLC-TE           | 1000BASE-T SFP transceiver module for Category 5    |  |
|------------------|---|--|
| OLC-TE           | copper wire   |  |
| SFP-10G-SR       | 10GBASE-SR SFP Module                               |  |
|                  | SFP-10G-SR-X= 10GBASE-SR SFP Module, LC             |  |
| SFP-10G-SR-X=    | connector, 850nm, 300m range, multimode fiber       |  |
|                  | (MMF), extended operating temperature range         |  |
| SFP-10G-LR       | 10GBASE-LR SFP+ Module for SMF 10 Gbps              |  |
| SFP-10G-LRM      | 10GBASE-LRM SFP Module                              |  |
| SFP-10G-ER       | Cisco 10GBASE-ER SFP+ Module for SMF                |  |
| CISCO SFP-10G-ZR | Cisco 10GBASE-ZR SFP10G Module for SMF              |  |
| SFP-H10GB-ACU7M  | Cisco Direct-Attach Active Optical Cables with SFP+ |  |
|                  | Connectors, SFP-H10GB-ACU7M                         |  |

| SFP-H10GB-ACU10M | Cisco SFP-H10GB-ACU10M Direct-Attach Active<br>Optical Cables with SFP+ Connectors |
|------------------|--|
|------------------|--|

| Model                     | C9800-40-K9                 | C9800-80-K9                 |  |
|---------------------------|-----------------------------|-----------------------------|--|
| Maximum number of access  | Up to 2000                  | Up to 6000                  |  |
| points                    | ep to 2000                  | Op 10 0000                  |  |
| Maximum number of clients | 32,000                      | 64,000                      |  |
| Maximum throughput        | Up to 40 Gbps               | Up to 80 Gbps               |  |
| Maximum WLANs             | 4096                        | 4096                        |  |
| Maximum VLANs             | 4096                        | 4096                        |  |
| License                   | Smart License enabled       | Smart License enabled       |  |
| Operating system          | Cisco IOS XE                | Cisco IOS XE                |  |
| Access points             | Aironet 802.11ac Wave 1 and | Aironet 802.11ac Wave 1 and |  |
| Access points             | Wave 2 access points        | Wave 2 access points        |  |

## C9800-40-K9 Specification

| Maximum number of access points | Up to 2000                                   |
|---------------------------------|--|
| Maximum number of clients       | 32,000                                       |
| Maximum throughput              | Up to 40 Gbps                                |
| Maximum WLANs                   | 4096   |
| Maximum VLANs                   | 4096   |
| Max Site Tags                   | 2000   |
| Max APs per Site                | 100  |
| Max Policy Tags                 | 2000   |
| Max RF Tags                     | 2000   |
| Max RF Profiles                 | 4000   |
| Max Policy Profiles             | 1000   |
| Max Flex Profiles               | 2000   |
| Interfaces                      | 4x 10 GE/1 GE SFP+/SFP                       |
| Power supply                    | AC power with optional redundant AC power    |
| Maximum power consumption       | 381W   |
| Deployment modes                | Centralized, Cisco Flex Connect®, and Fabric |
|                                 | Wireless (SD-Access)                         |
| Form factor                     | 1RU  |

| License   | Smart License enabled   |  |
|---|---|--|
| Operating system                                | Cisco IOS XE  |  |
|   | Cisco DNA Center <sup>TM</sup> 1.2.8, Cisco Prime®                  |  |
| Management                                      | Infrastructure 3.5, integrated Web UI, and third party              |  |
|   | (open standards APIs)   |  |
| Interespondibility                              | Aire OS-based controllers with 8.8 MR2, 8.5 MR4,                    |  |
| Interoperability                                | and 8.5 MR3 special   |  |
| Policy engine                                   | Cisco Identity Services Engine (ISE) 2.2, 2.3, and 2.4              |  |
| <b>Cisco Connected Mobile Experiences (CMX)</b> | CMX 10.5.1  |  |
| Access points                                   | Air onet 802.11ac Wave 1 and Wave 2 access point                    |  |
|   | 17.3 inches $\times$ 19.5 inches $\times$ 1.72 inches               |  |
| Dimension $(W \times D \times H)$               |   |  |
|   | $(43.94 \text{ cm} \times 49.53 \text{ cm} \times 4.37 \text{ cm})$ |  |
| Weight  | 22.8 lb (10.34 kg)  |  |
|   | IEEE 802.11a, 802.11b, 802.11g, 802.11d,                            |  |
| Wireless standards                              | WMM/802.11e, 802.11h, 802.11n, 802.11k, 802.11r,                    |  |
|   | 802.11u, 802.11w, 802.11ac Wave1 and Wave2                          |  |

| Without and taking and most on the day of | HEER 902 2 10D AGE THEER 902 2 100D AGE TV   |  |
|---|--|--|
| Wired, switching, and routing standards   | IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX,   |  |
|   | 1000BASE-T. 1000BASE-SX, 1000-BASE-LH, IEEE 802.1Q   |  |
| Data standards                            | VLAN taggin, 802.1AX Link Aggregation  |  |
| Data standards                            | <ul><li>RFC 768 User Datagram Protocol (UDP)</li><li>RFC 791 IP</li></ul>  |  |
|   | • RFC 2460 IPv6  |  |
|   | RFC 792 Internet Control Message Protocol (ICMP)   |  |
|   | RFC 792 Internet Control Message Flotocol (ICMF)     RFC 793 TCP   |  |
|   | • RFC 826 Address Resolution Protocol (ARP)  |  |
|   | RFC 1122 Requirements for Internet Hosts   |  |
|   | • RFC 1519 Classless Interdomain Routing (CIDR)  |  |
|   | RFC 1542 Bootstrap Protocol (BOOTP)  |  |
|   | RFC 2131 Dynamic Host Configuration Protocol (DHCP)  |  |
|   | • RFC 5415 Control and Provisioning of Wireless Access   |  |
|   | Points (CAPWAP) Protocol   |  |
|   | • RFC 5416 CAPWAP Binding for 802.11   |  |
| Security standards                        | Wi-Fi Protected Access (WPA)   |  |
| 2000-003                                  | • IEEE 802.11i (WPA2, RSN)   |  |
|   | • RFC 1321 MD5 Message-Digest Algorithm  |  |
|   | • RFC 1851 Encapsulating Security Payload (ESP) Triple   |  |
|   | DES (3DES) Transform   |  |
|   | • RFC 2104 HMAC: Keyed-Hashing for Message   |  |
|   | Authentication   |  |
|   | • RFC 2246 TLS Protocol Version 1.0  |  |
|   | • RFC 2401 Security Architecture for the Internet Protocol   |  |
|   | • RFC 2403 HMAC-MD5-96 within ESP and AH   |  |
|   | • RFC 2404 HMAC-SHA-1-96 within ESP and AH   |  |
|   | • RFC 2405 ESP DES-CBC Cipher Algorithm with Explicit  |  |
|   | IV   |  |
|   | • RFC 2407 Interpretation for Internet Security Association  |  |
|   | Key Management Protocol (ISAKMP)   |  |
|   | • RFC 2408 ISAKMP  |  |
|   | RFC 2409 Internet Key Exchange (IKE)      RFC 2451 FGD CDC M. J. Gi. J. Ali                                      |  |
|   | • RFC 2451 ESP CBC-Mode Cipher Algorithms  |  |
|   | • RFC 3280 Internet X.509 Public Key Infrastructure (PKI)  |  |
|   | Certificate and Certificate Revocation List (CRL) Profile  |  |
|   | <ul> <li>RFC 4347 Datagram Transport Layer Security (DTLS)</li> <li>RFC 5246 TLS Protocol Version 1.2</li> </ul> |  |
| Enorgation standards                      | Static Wired Equivalent Privacy (WEP) RC4 40, 104 and  |  |
| Encryption standards                      | 128 bits   |  |
|   | <ul> <li>Advanced Encryption Standard (AES): Cipher Block</li> </ul>   |  |
|   | Chaining (CBC), Counter with CBC-MAC (CCM), Counter  |  |
|   | with CBC Message Authentication Code Protocol (CCMP)   |  |
|   | Data Encryption Standard (DES): DES-CBC, 3DES  |  |
|   | - Data Energytion Standard (DES). DES-CDC, 3DES  |  |

| ## Secure Society Layer (ST, 18), RCd 128-bit and RSA 1024-and 2084-bit DTLS . SEC CBC   |                                    |   |
|--|------------------------------------|---|
| ## DTILS: ARS-CRC   Proc: DES-CR, 3DES, AES-CRC   802.14E MACSec encryption   IEEE 802.1 K   REC 2548 Microsoft Vendor-Specific RADIUS Attributes  |                                    | Secure Sockets Layer (SSL) and Transport Layer Security  (TKS), PG4 120 1 in 1864 1004 1100 1100 1100 1100 1100 1100 11 |
| ### IPSEC: DES CEC, 3DES, AES CEC  ### S02.1AE MACSE entryption  ### Authentication, Authorization, and Accounting (AAA)  ### IEEE 302.1X  ### C2348 Microsoft Vendor-Specific RADIUS Autributes  ### RFC 2346 Microsoft Vendor-Specific RADIUS Autributes  ### RFC 2346 RADIUS Authentication  ### RFC 2366 RADIUS Extensions  ### RFC 2367 RADIUS Extensions  ### RFC 2367 RADIUS Extensions to RADIUS  ### RFC 3367 RADIUS Extensions  ### RFC 3376 Dynamic Authorization Extensions to RADIUS  ### RFC 3376 RADIUS Support for EAP  ### RFC 3368 IEEE 802.1X RADIUS Guidelines  ### RFC 3378 RADIUS Support for EAP  ### RFC 3369 IEEE 802.1X RADIUS Guidelines  ### RFC 3369 IEEE 802.1X  |                                    |   |
| ### Authentication, Authorization, and Accounting (AAA) standards  ### Authentication, Authorization, and Accounting (AAA) standards  ### RFC 248 Microsoft Vendor-Specific RADIUS Autributes ### RFC 2488 Microsoft Vendor-Specific RADIUS Autributes ### RFC 2488 Microsoft Vendor-Specific RADIUS Autributes ### RFC 2486 RADIUS Authentication ### RFC 2486 RADIUS Authentication ### RFC 2486 RADIUS Authentication ### RFC 2486 RADIUS Tonnel Accounting ### RFC 3480 RADIUS Tonnel Accounting ### RFC 3480 RADIUS Tonnel Accounting ### RFC 3480 RADIUS Support For EAP ### RFC 3480 RADIUS Support For RADIUS Support For RADIUS ### RFC 3480 RADIUS Support For RADIUS ### RFC 3480 RADIUS For RADIUS Support For RADIUS ### RFC 3480 RADIUS For RADIUS Support RADIUS ### RFC 3480 RADIUS For RADIUS For RADIUS Support RADIUS ### RFC 3480 RADIUS For RADIUS For RADIUS For RADIUS ### RFC 3480 RADIUS For RADIUS F |                                    |   |
| ### Authentication, Authorization, and Accounting (AAA) standards  ### REC 2348 Microsoft Vendor-Specific RADIUS Attributes ### REC 2348 Microsoft Vendor-Specific RADIUS Attributes ### REC 2346 RADIUS Actual Protocol (PAP) Extensible Authentication Protocol (FAP) T.S. ### REC 2366 RADIUS Actual Protocol (FAP) ### REC 2366 RADIUS Accounting ### REC 2367 RADIUS Tunnel Accounting ### REC 2367 RADIUS Extensions ### REC 2368 RADIUS Extensions ### REC 2369 RADIUS Ext |                                    |   |
| # RFC 2548 Microsoft Vendor-Specific RADJUS Attributes # RFC 2716 Point-O-Point Protoco (EAP)-TLS # RFC 2368 RADJUS Autonitation # RFC 2368 RADJUS Timed Accounting # RFC 2369 RADJUS Timed Accounting # RFC 2369 RADJUS Timed Autonization Extensions to RADJUS # RFC 3579 RADJUS Symport for EAP # RFC 3580 REB 802.1X RADJUS Guidelines # RFC 3579 RADJUS Symport for EAP # RFC 3580 REB 802.1X RADJUS Guidelines # RFC 3580 REB 802.1X RADJUS Guidelines # RFC 3580 REB 802.1X RADJUS Guidelines # RFC 1156 MIB # RFC 1156 MIB # RFC 1157 SNMP # RFC 1157 SNMP # RFC 1158 MIB # RFC 2368 Element like Interface Types MIB # RFC 2368 Interfaces Group MIB # RFC 2368 Interfaces Recomply Midel (USM) for SNMPv3 # RFC 2369 Remote Monitoring (RMON) MIB # RFC 2368 Interfaces Group MIB # RFC 2368 Interfaces Recomply Midel |                                    |   |
| ## RFC 2716 Point-to-Point Protocol (RPP) Extensible Authentication Protocol (RAP)-TLS RFC 2865 RADIUS Authentication RFC 2866 RADIUS Authentication RFC 2866 RADIUS Structure RFC 2867 RADIUS Tunnel Accounting RFC 2867 RADIUS Tunnel Accounting RFC 2867 RADIUS Structure of RADIUS RFC 3579 RADIUS Structure of RADIUS RFC 3579 RADIUS Support for EAP RFC 3574 Extensible Authentication Protocol (EAP) Web-based authentication TACACS support for management users  ### RFC 3574 Extensible Authentication Protocol (EAP) Web-based authentication RFC 3574 Extensible Authentication Protocol (EAP) RFC 1155 Management Protocol (SNMP) v1, v2c, v3 RFC 854 Telnet RFC 1155 Management Information for TCPIP-based Intermets RFC 1156 MIB RFC 1157 SNMP RFC 1351 SNMP MB II RFC 1356 Simple Network Time Protocol (SNTP) RFC 1643 Ethernet AIMB RFC 1266 RITTP RFC 2656 Ethernet-Like Interface Types MIB RFC 2030 Simple Network Time Protocol (SNTP) RFC 2666 Ethernet-Like Interface Types MIB RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicase Illering, and Virtual Extensions RFC 2863 Interfaces Group MIB RFC 2863 Interfaces Group MIB RFC 3664 Syslog RFC 3414 User-Based Security Model (USM) for SNMPy3 RFC 3414 User-Based Security Model (USM) for SNMPy3 RFC 3414 User-Based Security Model (USM) for SNMPy3 RFC 3418 WRITE ONLY Over SSH RFC 6241 NETCONF RFC 6241 NETCONF over SSH RFC 6242 NETCONF over SSH RFC 6242 NETCONF over SSH RFC 6243 With-Defaults capability for NETCONF RFC 620 YANG STATA Solid-State Drive (SSD) 240 GB of memory NETCONF NOTE OF TWO AND       |                                    |   |
| Authentication Protocol (EAP)-TLS  • RFC 2866 RADIUS Accounting  • RFC 2867 RADIUS Trained Accounting  • RFC 2869 RADIUS Extensions  • RFC 3176 Dynamic Authorization Extensions to RADIUS  • RFC 3176 Extensible Authentication • RFC 3178 Extensible Authentication • RFC 3178 Extensible Authentication • TACACS support for management users  • Simple Network Management Protocol (SNMP) v1, v2c, v3  • RFC 854 Telnet • RFC 1155 MB • RFC 1157 SNMP • RFC 1157 SNMP • RFC 1157 SNMP • RFC 1157 SNMP MB II • RFC 1350 Trivial File Transfer Protocol (TFTP) • RFC 1458 Ethernet MB • RFC 2175 Like Interface Types MB • RFC 2030 Simple Network Time Protocol (SNTP) • RFC 265 Ethernet Like Interface Types MB • RFC 2665 Ethernet Like Interface Types MB • RFC 3665 Syslog • RFC 3418 User-Based Security Model (USM) for SNMPv3 • RFC 3418 WB 78 SNMP • RFC 3636 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions • RFC 2418 MB for SNMP • RFC 3636 Definitions of Managed Objects for IEEE 802.3  MAUS • RFC 4741 Buse NETCONF over SSH • RFC 6241 NETCONF over SSH • RFC 6241 NETCONF over SSH • RFC 6243 With-Defaults capability for NETCONF • RFC 6243 With-Defaults capability for NETCONF • RFC 6242 PATICONF over SSH • RFC 6243 With-Defaults capability for NETCONF • RFC 62 | standards                          |   |
| RFC 2865 RADIUS Authentication RFC 2866 RADIUS Accounting RFC 2867 RADIUS Tunnel Accounting RFC 2867 RADIUS Support for EAP RFC 3576 Dynamic Authorization Extensions to RADIUS RFC 5176 Dynamic Authorization Extensions to RADIUS RFC 3578 DRADIUS Support for EAP RFC 3580 IEEE 802.1X RADIUS Guidelines RFC 3748 Extensible Authentication Protocol (EAP) Web-based authentication TACACS support for management users  Simple Network Management Protocol (SNMP) v1, v2c, v3 RFC 854 Telnet RFC 1155 Management Information for TCP/IP-based Internets RFC 1155 Management Information for TCP/IP-based Internets RFC 1156 MIB RFC 1157 SNMP RFC 1213 SNMP MIB II RFC 1357 SNMP RFC 1264 Ethernet MIB RFC 1267 SNMP RFC 1264 Ethernet MIB RFC 2365 Ethernet-Like Interface Types MIB RFC 2656 Ethernet-Like Interface Types MIB RFC 2657 Ethernet MIB RFC 2657 Ethernet-Like Interface Types MIB RFC 2657 Ethernet-Like Interface Types MIB RFC 2657 Ethernet-Like Interface Types MIB RFC 2657 SIbernet-Like Interface Types MIB RFC 2657 RED Miliciast Filtering, and Virtual Extensions RFC 2767 Bernet Miliciast Filtering, and Virtual Extensions RFC 2767 SIbernet-Like Interface Types MIB RFC 2658 Interfaces Group MIB RFC 2658 Interfaces Representation of Managed Objects for IEEE 802.3 MAUs RFC 2741 Base NETCONF over SSH RFC 277 NETCONF event notifications RFC 277 |                                    | • RFC 2716 Point-to-Point Protocol (PPP) Extensible   |
| RFC 2866 RADIUS Accounting RFC 2869 RADIUS Extensions RFC 2869 RADIUS Extensions RFC 3576 Dynamic Authorization Extensions to RADIUS RFC 3576 Dynamic Authorization Extensions to RADIUS RFC 3578 RADIUS Support for EAP RFC 3580 EEE 802.1X RADIUS Guidelines RFC 3748 Extensible Authentication Protocol (GAP) Web-based authentication TACACS support for management users Simple Network Management Protocol (SNMP) v1, v2c, v3 RFC 854 Telhet RFC 1156 MIB RFC 1350 Thival File Transfer Protocol (SNMP) v1, v2c, v3 RFC 854 Telhet RFC 1157 SNMP RFC 1213 SNMP MIB II RFC 1350 Trivial File Transfer Protocol (FTFP) RFC 1643 Ethernet MIB RFC 2030 Simple Network Time Protocol (SNTP) RFC 2665 Ethernet-Like Interface Types MIB RFC 2030 Simple Network Time Protocol (SNTP) RFC 2665 Ethernet-Like Interface Types MIB RFC 2030 Simple Network Time Protocol (SNTP) RFC 2664 Ethernet-Like Interface Types MIB RFC 2303 Simple Network Time Protocol (SNTP) RFC 2664 Ethernet-Like Interface Types MIB RFC 2303 Simple Network Time Protocol (SNTP) RFC 2664 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions RFC 2843 Nulls for SNMP RFC 3464 Syslog RFC 3444 User-Based Security Model (USM) for SNMPv3 RFC 3418 MIB for SNMP RFC 3665 Definitions of Managed Objects for IEEE 802.3 MAUS RFC 4742 Base NETCONF protocol RFC 4742 ENTCONF over SSH RFC 6242 NETCONF over SSH RFC 6243 WIRD-Defaults capability for NETCONF RFC 6246 WIRD-Defaults capability for NETCONF RFC 6247 WIRD-Defaults capability for NETCONF RFC 6248 WIRD-Defaults capability for NETCONF RFC 6249 WIRD-Defaults capability for NETCONF RFC 6247 WIRD-Defaults capability for NETCONF RFC 6248 WIRD-Defau |                                    | Authentication Protocol (EAP)-TLS   |
| RFC 2807 RADIUS Tunnel Accounting RFC 2809 RADIUS Extensions RFC 3576 Dynamic Authorization Extensions to RADIUS RFC 3576 Dynamic Authorization Extensions to RADIUS RFC 3579 RADIUS Support for EAP RFC 3580 IEEE 802.1X RADIUS Guidelines RFC 3578 RADIUS Support for EAP RFC 3580 IEEE 802.1X RADIUS Guidelines RFC 3578 REDIUS Support for EAP RFC 3580 IEEE 802.1X RADIUS Guidelines RFC 1580 Support for management users  Simple Network Management Protocol (ISMP) v1, v2c, v3 RFC 8354 Telnet RFC 1155 Management Information for TCP/IP-based Internets RFC 1156 MIB RFC 1367 SIMP RFC 1213 SIMP MIB II RFC 1367 SIMP RFC 12643 Ethernet MIB RFC 1367 SIMP RFC 1643 Ethernet MIB RFC 1643 Ethernet MIB RFC 1643 Ethernet MIB RFC 2646 I HTTP RFC 2647 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions RFC 2819 Remote Monitoring (RMON) MIB RFC 2641 NETCONF MANAGEMENT AND AUTHORITIES AND |                                    | • RFC 2865 RADIUS Authentication  |
| RFC 2807 RADIUS Tunnel Accounting RFC 2809 RADIUS Extensions RFC 3576 Dynamic Authorization Extensions to RADIUS RFC 3576 Dynamic Authorization Extensions to RADIUS RFC 3579 RADIUS Support for EAP RFC 3580 IEEE 802.1X RADIUS Guidelines RFC 3578 RADIUS Support for EAP RFC 3580 IEEE 802.1X RADIUS Guidelines RFC 3578 REDIUS Support for EAP RFC 3580 IEEE 802.1X RADIUS Guidelines RFC 1580 Support for management users  Simple Network Management Protocol (ISMP) v1, v2c, v3 RFC 8354 Telnet RFC 1155 Management Information for TCP/IP-based Internets RFC 1156 MIB RFC 1367 SIMP RFC 1213 SIMP MIB II RFC 1367 SIMP RFC 12643 Ethernet MIB RFC 1367 SIMP RFC 1643 Ethernet MIB RFC 1643 Ethernet MIB RFC 1643 Ethernet MIB RFC 2646 I HTTP RFC 2647 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions RFC 2819 Remote Monitoring (RMON) MIB RFC 2641 NETCONF MANAGEMENT AND AUTHORITIES AND |                                    | • RFC 2866 RADIUS Accounting  |
| RFC 2869 RADIUS Extensions RFC 3576 Dynamic Authorization Extensions to RADIUS RFC 3576 Dynamic Authorization Extensions to RADIUS RFC 3579 RADIUS Support for EAP RFC 3580 IEEE 802.1X RADIUS Guidelines RFC 3580 IEEE 802.1X RADIUS Guidelines RFC 3580 EEE 802.1X RADIUS Guidelines RFC 3580 EEEE 802.1X RADIUS Guidelines RFC 1550 Support for management users Simple Network famagement protocol (SMP) v1, v2c, v3 RFC 854 Telnet RFC 1155 Management Information for TCP/IP-based Internets RFC 1155 Management Information for TCP/IP-based Internets RFC 1156 MIB RFC 1350 SNMP MIB II RFC 1350 SNMP MIB II RFC 1350 Simple Network Time Protocol (TFTP) RFC 1665 Ethernet-Like Interface Types MIB RFC 2613 Ethernet MIB RFC 2635 Ethernet-Like Interface Types MIB RFC 2636 Ethernet-Like Interface Types MIB RFC 2636 Ethernet-Like Interface Types MIB RFC 2638 SNMP (Classes, Multicast Filtering, and Virtual Extensions RFC 2819 Remote Monitoring (RMON) MIB RFC 2638 Interfaces Group MIB RFC 3164 Syslog RFC 3414 User-Based Security Model (USM) for SNMPv3 RFC 3414 User-Based Security Model (USM) for SNMPv3 RFC 3414 SMB for SNMP RFC 3431 RTCONF RFC 3431 NETCONF over SSH RFC 4742 NETCONF over SSH RFC 4742 NETCONF over SSH RFC 6243 NETCONF RFC 6242 NETCONF RFC 6240  |                                    |   |
| RFC 3576 Dynamic Authorization Extensions to RADIUS  |                                    | · ·   |
| RPC 5176 Dynamic Authorization stensions to RADIUS   |                                    |   |
| RFC 3579 RADIUS Support for EAP  |                                    |   |
| RFC 3780 IEEE 802.1X RADIUS Guidelines   |                                    |   |
| ### RFC 3748 Extensible Authentication Protocol (EAP)  Web-based authentication  TACACS support for management users  ### Simple Network Management Protocol (SNMP) v1, v2c, v3  ### RFC 1155 Management Information for TCP/IP-based Internets  ### RFC 1155 MIB  ### RFC 1157 SNMP  ### RFC 1135 NMP MIB II  ### RFC 1135 NMP MIB II  ### RFC 1213 SNMP MIB II  ### RFC 1230 Simple Network Time Protocol (TFTP)  ### RFC 1243 Ethernet MIB  ### RFC 2030 Simple Network Time Protocol (SNTP)  ### RFC 2665 Ethernet-Like Interface Types MIB  ### RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions  ### RFC 2674 Syslog  ### RFC 2863 Interfaces Group MIB  ### RFC 3630 Edinitions of Managed Objects for IEEE 802.3 MAUs  ### RFC 3414 Miser-Based Security Model (USM) for SNMPv3  ### RFC 3418 MIB for SNMP  ### RFC 3430 Edinitions of Managed Objects for IEEE 802.3 MAUs  ### RFC 4744 Base NETCONF protocol  ### RFC 4742 NETCONF over SSH  ### RFC 6243 NETCONF over SSH  ### RFC 6244 NETCONF over SSH  ### RFC 6244 NETCONF over SSH  ### RFC 6244 NETCONF over SSH  ### RFC 6 |                                    |   |
| Web-based authentication     TACACS support for management users   |                                    |   |
| Management standards  Simple Network Management Protocol (SNMP) v1, v2c, v3 RFC 854 Telnet RFC 1155 Management Information for TCP/IP-based Internets RFC 1157 SNMP RFC 1157 SNMP RFC 1157 SNMP RFC 1213 SNMP MIB II RFC 1213 SNMP MIB II RFC 1230 Simple Network Time Protocol (TFTP) RFC 1643 Ethernet MIB RFC 2030 Simple Network Time Protocol (SNTP) RFC 2665 Ethernet-Like Interface Types MIB RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions RFC 2819 Remote Monitoring (RMON) MIB RFC 3164 Syslog RFC 3414 User-Based Security Model (USM) for SNMPv3 RFC 3164 Syslog RFC 3414 User-Based Security Model (USM) for SNMPv3 RFC 3418 MIB for SNMP RFC 3436 Definitions of Managed Objects for IEEE 802.3 MAUS RFC 4741 Base NETCONF protocol RFC 4742 NETCONF over SSH RFC 6241 NETCONF RFC 6241 NETCONF RFC 6241 NETCONF over SSH RFC 6242 NETCONF over SSH RFC 6243 With-Defaults capability for NETCONF RFC 6020 Y ANG Cisco private MIBs  Management interfaces  Ommand-line interface: Felnet, Secure Shell (SSII) Protocol, scrial port SNMP NETCONF RFC 6020 Y ANG Cisco private MIBs  Management interfaces  Management interfaces  Management interfaces  Management interfaces  Operating temperature: Operating temperat |                                    |   |
| ## Simple Network Management Protocol (SNMP) v1, v2c, v3  ## RFC 854 Telnet ## RFC 1155 Management Information for TCP/IP-based Internets ## RFC 1155 MIB ## RFC 1157 SNMP ## RFC 1157 SNMP ## RFC 1157 SNMP MIB II ## RFC 1350 Trivial File Transfer Protocol (TFTP) ## RFC 1350 Trivial File Transfer Protocol (TFTP) ## RFC 1361 Sthernet MIB ## RFC 2030 Simple Network Time Protocol (SNTP) ## RFC 2665 Ethernet-Like Interface Types MIB ## RFC 2665 Ethernet-Like Interface Group MIB ## RFC 2666 Ethernet-Like Interface Group MIB ## RFC 2667 Ethernet MIB ## RFC 2667 Ethernet MIB ## RFC 3667 Ethernet MIB ## R |                                    |   |
| RFC 1155 Management Information for TCP/IP-based Internets   RFC 1155 MIB     RFC 1157 SMMP     RFC 1157 SNMP MIB II     RFC 1157 SNMP MIB II     RFC 1157 SNMP MIB II     RFC 1213 SNMP MIB II     RFC 1230 Tivial File Transfer Protocol (TFTP)     RFC 1643 Ethernet MIB     RFC 2030 Simple Network Time Protocol (SNTP)     RFC 2656 Ethernet-Like Interface Types MIB     RFC 2665 Ethernet-Like Interface Types MIB     RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions     RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions     RFC 2819 Remote Monitoring (RMON) MIB     RFC 2816 Interfaces Group MIB     RFC 3164 Syslog     RFC 3164 Syslog     RFC 3144 User-Based Security Model (USM) for SNMPv3     RFC 3418 MIB for SNMP     RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUS     RFC 3418 MIB for SNMP     RFC 3675 Partial Lock Remote Protocol     RFC 4742 NFTCONF over SSH     RFC 6241 NETCONF     RFC 6242 NETCONF over SSH     RFC 6243 Nith-Defaults capability for NETCONF     RFC 6209 YAMC     RFC 6    |                                    |   |
| RPC 1155 Management Information for TCP/IP-based Internets  RPC 1156 MIB  RPC 1157 SNMP  RPC 1213 SNMP MIB II  RPC 1230 Trivial File Transfer Protocol (TFTP)  RPC 1243 SNMP MIB II  RPC 1243 Ethernet MIB  RPC 2303 Simple Network Time Protocol (SNTP)  RPC 2616 HTTP  RPC 2665 Ethernet-Like Interface Types MIB  RPC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions  RPC 2819 Remote Monitoring (RMON) MIB  RPC 2863 Interfaces Group MIB  RPC 3164 Syslog  RPC 3314 User-Based Security Model (USM) for SNMPv3  RPC 3418 MIB for SNMP  RPC 3434 WIB for SNMP  RPC 3434 WIB for SNMP  RPC 3444 SPETCONF protocol  RPC 4741 Base NETCONF protocol  RPC 4742 NETCONF over SSH  RPC 6241 NETCONF  RPC 6242 NETCONF over SSH  RPC 6277 NETCONF event notifications  RPC 5717 Partial Lock Remote Procedure Call  RPC 6324 With-Defaults capability for NETCONF  RPC 6327 NETCONF event notifications  RPC 5717 Partial Lock Remote Procedure Call  RPC 6329 VANG  Cisco private MIBs  Management interfaces  Management interfaces  Management interfaces Telnet, Secure Shell (SSH)  Protocol, serial port  SMMP  NETCONF  RPC 6020 VANG  Command-line interface: Telnet, Secure Shell (SSH)  Protocol, serial port  SMMP  NETCONF  RPC 4040 GB of memory  Operating temperature:  Nonnel: 5° to 50° C (41° to 104°F)  Short term: 5° to 50° C (41° to 102°F)  Nonoperating temperature:  40° to 5° C (104° to 149°F)  | Management standards               |   |
| Internets  RPC 1156 MIB  RPC 1157 SNMP  RPC 1213 SNMP MIB II  RPC 1350 Trivial File Transfer Protocol (TFTP)  RPC 1643 Ethernet MIB  RPC 2030 Simple Network Time Protocol (SNTP)  RPC 2616 HTTP  RPC 2616 HTTP  RPC 2616 HTTP  RPC 2616 Ethernet-Like Interface Types MIB  RPC 2030 Simple Network Time Protocol (SNTP)  RPC 2616 HTTP  RPC 2665 Ethernet-Like Interface Types MIB  RPC 2410 Perinitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions  RPC 2819 Remote Monitoring (RMON) MIB  RPC 2819 Remote Monitoring (RMON) MIB  RPC 2816 Interfaces Group MIB  RPC 3164 Syslog  RPC 3414 User-Based Security Model (USM) for SNMPv3  RPC 3418 MIB for SNMP  RPC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs  RPC 3414 NETCONF protocol  RPC 4742 NETCONF over SSH  RPC 4742 NETCONF over SSH  RPC 6242 NETCONF over SSH  RPC 6242 NETCONF over SSH  RPC 6242 NETCONF over SSH  RPC 6243 Nith-Defaults capability for NETCONF  RPC 6240 YANG  Cisco private MIBs  Management interfaces  Meb-based: HTTP/HTTPS  Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port  SNMP  NETCONF  RPC 6020 YANG  Cisco private MIBs  Management interfaces  Meb-based: HTTP/HTTPTPS  Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port  SNMP  NETCONF  RSATA Solid-State Drive (SSD)  240 GB of memory  Departing temperature:  Normal: 5° to 50° C (41° to 104°F)  Short term: 5° to 50° C (41° to 102°F)  Short term: 5° to 50° C (41° to 104°F)  Short term: 5° to 50° C (41° to 104°F)  |                                    |   |
| RFC 1156 MIB RFC 1157 SNMP RFC 1213 SNMP MIB II RFC 1230 Trivial File Transfer Protocol (TFTP) RFC 1243 Ethernet MIB RFC 2030 Simple Network Time Protocol (SNTP) RFC 2636 Ethernet-Like Interface Types MIB RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions RFC 2619 Remote Monitoring (RMON) MIB RFC 2863 Interfaces Group MIB RFC 2819 Remote Monitoring (RMON) MIB RFC 2863 Interfaces Group MIB RFC 3164 Syslog RFC 3144 User-Based Security Model (USM) for SNMPv3 RFC 3144 Syslog RFC 3414 Wiser-Based Security Model (USM) for SNMPv3 RFC 6245 Wiser-Based Security Model (USM) for SNMPv3 RFC 6247 Wiser-Based Security Model (USM) for SNMPv3 RFC 6250 Fixer-Based Security Model (USM) for SNMPv3 RFC 6263 Wiser-Based Security Model (USM) for SNMPv3 RFC 6261 Wiser-Based Security Model (USM) for SNMPv3 RFC 6264 Wiser-Based Security Model (USM) for SNMPv3 RFC 6261 Wiser-Bas  |                                    | • RFC 1155 Management Information for TCP/IP-based  |
| RFC 1157 SNMP     RFC 1213 SNMP MIB II     RFC 1213 SNMP MIB II     RFC 1213 SNMP MIB II     RFC 1235 O'Trivial File Transfer Protocol (TFTP)     RFC 1643 Ethernet MIB     RFC 2030 Simple Network Time Protocol (SNTP)     RFC 2616 HTTP     RFC 2616 HTTP     RFC 2665 Ethernet-Like Interface Types MIB     RFC 2619 Hefnitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions     RFC 2819 Remote Monitoring (RMON) MIB     RFC 2863 Interfaces Group MIB     RFC 3164 Syslog     RFC 3414 User-Based Security Model (USM) for SNMPv3     RFC 3414 User-Based Security Model (USM) for SNMPv3     RFC 3418 Definitions of Managed Objects for IEEE 802.3 MAUs     RFC 4742 NETCONF over SSH     RFC 6741 NETCONF     RFC 6241 NETCONF     RFC 6241 NETCONF     RFC 6241 NETCONF over SSH     RFC 5717 Partial Lock Remote Procedure Call     RFC 6727 NETCONF event notifications     RFC 6720 YANG     Cisco private MIBs  Management interfaces  Management interfaces  Management interfaces Telnet, Secure Shell (SSH) Protocol, serial port     SNMP     NETCONF      SATA Solid-State Drive (SSD)     240 GB of memory  Environmental conditions supported  Operating temperature:     Overating temperature:     Overating temperature:     -40° to 56° C (-104° to 149°F)   |                                    |   |
| RFC 1213 SNMP MIB II     RFC 1350 Trivial File Transfer Protocol (TFTP)     RFC 1643 Ethernet MIB     RFC 2030 Simple Network Time Protocol (SNTP)     RFC 2616 HTTP     RFC 2616 HTTP     RFC 2665 Ethernet-Like Interface Types MIB     RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions     RFC 2819 Remote Monitoring (RMON) MIB     RFC 2819 Remote Monitoring (RMON) MIB     RFC 3164 Syslog     RFC 3414 User-Based Security Model (USM) for SNMPv3     RFC 3414 NIB for SNMP     RFC 3636 Definitions of Managed Objects for IEEE 802.3     MAUS     RFC 4742 NETCONF over SSH     RFC 6241 NETCONF over SSH     RFC 6241 NETCONF over SSH     RFC 6242 NETCONF over SSH     RFC 6242 NETCONF over SSH     RFC 6243 NIT-Defaults capability for NETCONF     RFC 6243 With-Defaults capability for NETCONF     RFC 6020 YANG     Cisco private MIBs  Management interfaces  Management interface: Telnet, Secure Shell (SSH) Protocol, serial port     SNMP     NETCONF     SATA Solid-State Drive (SSD)     240 GB of memory  Environmental conditions supported  Operating temperature:     Normal: 5º to 40° C (41° to 104°F)     Short term: 5º to 50° C (41° to 104°F)     Short term: 5º to 50° C (41° to 129°F)     Nonoperating temperature:     40° to 65° C (-104° to 149°F)   |                                    | • RFC 1156 MIB  |
| RFC 1350 Trivial File Transfer Protocol (TFTP)     RFC 2030 Simple Network Time Protocol (SNTP)     RFC 2030 Simple Network Time Protocol (SNTP)     RFC 2616 HTTP     RFC 2665 Ethernet-Like Interface Types MIB     RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions     RFC 2819 Remote Monitoring (RMON) MIB     RFC 2863 Interfaces Group MIB     RFC 3164 Syslog     RFC 3148 WIB for SNMP     RFC 3418 WIB for SNMP     RFC 3418 WIB for SNMP     RFC 3418 Base NETCONF protocol     RFC 4741 Base NETCONF protocol     RFC 4742 NETCONF over SSH     RFC 6242 NETCONF over SSH     RFC 5777 NETCONF event notifications     RFC 5717 Partial Lock Remote Procedure Call     RFC 6243 With Defaults capability for NETCONF     RFC 6020 YANG     Cisco private MIBs  Management interfaces  Management interfaces  Management interfaces  Part Add Disk Drives (HDD)  Environmental conditions supported  Poperating temperature:     Normal: 5° to 40° C (41° to 104°F)     Short term: 5° to 50° C (41° to 119°F)     Nonoperating temperature:     Normal: 5° to 40° C (104° to 119°F)     Short term: 5° to 50° C (41° to 129°F)     Nonoperating temperature:     Normal: 5° to 40° C (104° to 149°F)   |                                    | • RFC 1157 SNMP   |
| ■ RFC 1643 Ethernet MIB     ■ RFC 2030 Simple Network Time Protocol (SNTP)     ■ RFC 2616 HTTP     ■ RFC 2665 Ethernet-Like Interface Types MIB     ■ RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions     ■ RFC 2819 Remote Monitoring (RMON) MIB     ■ RFC 2863 Interfaces Group MIB     ■ RFC 3164 Syslog     ■ RFC 3141 User-Based Security Model (USM) for SNMPv3     ■ RFC 3141 User-Based Security Model (USM) for SNMPv3     ■ RFC 3418 MIB for SNMP     ■ RFC 3436 Definitions of Managed Objects for IEEE 802.3     MAUs     ■ RFC 4741 Base NETCONF protocol     ■ RFC 4742 NETCONF over SSH     ■ RFC 6241 NETCONF     ■ RFC 6241 NETCONF     ■ RFC 6241 NETCONF     ■ RFC 6241 NETCONF     ■ RFC 6243 With-Defaults capability for NETCONF     ■ RFC 6202 YANG     ● Cisco private MIBs  Management interfaces  Management interfaces  Management interface: Telnet, Secure Shell (SSH) Protocol, serial port     ■ SNMP     ■ NETCONF      ■ SATA Solid-State Drive (SSD)     ■ 240 GB of memory  Environmental conditions supported  Pervironmental: 5" to 40" C (41" to 104"F)     ■ Short term: 5" to 50" C (41" to 102"F)     Nonoperating temperature:     ■ 40" to 65" C (-104" to 149"F)   |                                    | • RFC 1213 SNMP MIB II  |
| RFC 2030 Simple Network Time Protocol (SNTP)     RFC 266 STEP     RFC 266 STEP     RFC 266 STEP     RFC 266 STEP     RFC 2665 Ethernet-Like Interface Types MIB     RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions     RFC 2819 Remote Monitoring (RMON) MIB     RFC 2863 Interfaces Group MIB     RFC 3164 Syslog     RFC 3414 User-Based Security Model (USM) for SNMPv3     RFC 3418 MIB for SNMP     RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs     RFC 4741 Base NETCONF protocol     RFC 4742 NETCONF over SSH     RFC 6241 NETCONF     RFC 6242 NETCONF over SSH     RFC 6242 NETCONF over SSH     RFC 5717 Partial Lock Remote Procedure Call     RFC 5717 Partial Lock Remote Procedure Call     RFC 6243 With-Defaults capability for NETCONF     RFC 6202 YANG     Cisco private MIBs  Management interfaces  Management interfaces  Management interfaces: Telnet, Secure Shell (SSH)     Protocol, serial port     SNMP     NETCONF  Hard Disk Drives (HDD)  SATA Solid-State Drive (SSD)     240 GB of memory  Derating temperature:     Normal: 5° to 40° C (41° to 104°F)     Short term: 5° to 50° C (41° to 122°F)     Nonoperating temperature:     Noroperating temperature:     -40° to 65° C (-104° to 149°F)  |                                    | • RFC 1350 Trivial File Transfer Protocol (TFTP)  |
| RFC 2616 HTTP     RFC 2656 Ethernet-Like Interface Types MIB     RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions     RFC 2819 Remote Monitoring (RMON) MIB     RFC 2863 Interfaces Group MIB     RFC 3164 Syslog     RFC 3144 User-Based Security Model (USM) for SNMPv3     RFC 3418 MIB for SNMP     RFC 3418 MIB for SNMP     RFC 3418 MIB for SNMP     RFC 3636 Definitions of Managed Objects for IEEE 802.3     MAUS     RFC 4741 Base NETCONF protocol     RFC 4742 NETCONF over SSH     RFC 6241 NETCONF     RFC 6242 NETCONF over SSH     RFC 6242 NETCONF over SSH     RFC 5277 NETCONF event notifications     RFC 5277 NETCONF event notifications     RFC 5273 NETCONF event notifications     RFC 5274 Net Confidency     RFC 6234 With Defaults capability for NETCONF     RFC 6020 YANG     Cisco private MIBs     Web-based: HTTP/HTTPS     Command-line interface: Telnet, Secure Shell (SSH)     Protocol, serial port     SNMP     NETCONF     NetTCONF     NetTCONF     SATA Solid-State Drive (SSD)     240 GB of memory     NetTCONF     SATA Solid-State Drive (SD)     Operating temperature:     Normal: 5° to 40° C (41° to 104°F)     Short term: 5° to 50° C (41° to 122°F)     Nonoperating temperature:     40° to 65° C (-104° to 149°F)   |                                    | • RFC 1643 Ethernet MIB   |
| RFC 2616 HTTP     RFC 2656 Ethernet-Like Interface Types MIB     RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions     RFC 2819 Remote Monitoring (RMON) MIB     RFC 2863 Interfaces Group MIB     RFC 3164 Syslog     RFC 3144 User-Based Security Model (USM) for SNMPv3     RFC 3418 MIB for SNMP     RFC 3418 MIB for SNMP     RFC 3418 MIB for SNMP     RFC 3636 Definitions of Managed Objects for IEEE 802.3     MAUS     RFC 4741 Base NETCONF protocol     RFC 4742 NETCONF over SSH     RFC 6241 NETCONF     RFC 6242 NETCONF over SSH     RFC 6242 NETCONF over SSH     RFC 5277 NETCONF event notifications     RFC 5277 NETCONF event notifications     RFC 5273 NETCONF event notifications     RFC 5274 Net Confidency     RFC 6234 With Defaults capability for NETCONF     RFC 6020 YANG     Cisco private MIBs     Web-based: HTTP/HTTPS     Command-line interface: Telnet, Secure Shell (SSH)     Protocol, serial port     SNMP     NETCONF     NetTCONF     NetTCONF     SATA Solid-State Drive (SSD)     240 GB of memory     NetTCONF     SATA Solid-State Drive (SD)     Operating temperature:     Normal: 5° to 40° C (41° to 104°F)     Short term: 5° to 50° C (41° to 122°F)     Nonoperating temperature:     40° to 65° C (-104° to 149°F)   |                                    | • RFC 2030 Simple Network Time Protocol (SNTP)  |
| RFC 2665 Ethernet-Like Interface Types MIB RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions RFC 2819 Remote Monitoring (RMON) MIB RFC 3164 Syslog RFC 3164 Syslog RFC 3164 Syslog RFC 3164 Syslog RFC 3414 User-Based Security Model (USM) for SNMPv3 RFC 3418 MIB for SNMP RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs RFC 3418 MIB for SNMP RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs RFC 4741 Base NETCONF protocol RFC 4742 NETCONF over SSH RFC 6241 NETCONF RFC 6241 NETCONF RFC 6242 NETCONF event notifications RFC 5277 NETCONF event notifications RFC 5717 Partial Lock Remote Procedure Call RFC 6243 With-Defaults capability for NETCONF RFC 6020 YANG Cisco private MIBs  Management interfaces  Meb-based: HTTP/HTTPS Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port SNMP NETCONF NETCONF  Hard Disk Drives (HDD) SATA Solid-State Drive (SSD) 240 GB of memory Operating temperature: Normal: 5° to 40° C (41° to 104°F) Short term: 5° to 50° C (41° to 102°F) Nonoperating temperature: Normal: 5° to 50° C (41° to 102°F)   |                                    |   |
| • RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions • RFC 2819 Remote Monitoring (RMON) MIB • RFC 2863 Interfaces Group MIB • RFC 3164 Syslog • RFC 3164 Syslog • RFC 3414 User-Based Security Model (USM) for SNMPv3 • RFC 3418 MIB for SNMP • RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs • RFC 4742 NETCONF protocol • RFC 4742 NETCONF over SSH • RFC 6241 NETCONF over SSH • RFC 6241 NETCONF over SSH • RFC 6242 NETCONF over SSH • RFC 6242 NETCONF over SSH • RFC 6243 With-Defaults capability for NETCONF • RFC 6020 YANG • Cisco private MIBs  Management interfaces  Management interfaces  Management interface: Telnet, Secure Shell (SSH) • Protocol, serial port • SNMP • NETCONF • NETCONF • NETCONF • NETCONF • SATA Solid-State Drive (SSD) • 240 GB of memory  Environmental conditions supported  Operating temperature: • Normal: 5° to 40° C (41° to 104°F) • Short term: 5° to 50° C (410° to 122°F) Nonoperating temperature: • Normal: 5° to 50° C (410° to 122°F) Nonoperating temperature: • Ado' to 65° C (-104° to 149°F)  |                                    |   |
| with Traffic Classes, Multicast Filtering, and Virtual Extensions  • RFC 2819 Remote Monitoring (RMON) MIB  • RFC 2863 Interfaces Group MIB  • RFC 3164 Syslog  • RFC 3414 User-Based Security Model (USM) for SNMPv3  • RFC 3418 MIB for SNMP  • RFC 3636 Definitions of Managed Objects for IEEE 802.3  MAUS  • RFC 4741 Base NETCONF protocol  • RFC 4742 NETCONF over SSH  • RFC 6241 NETCONF over SSH  • RFC 6242 NETCONF over SSH  • RFC 5277 NETCONF event notifications  • RFC 5717 Partial Lock Remote Procedure Call  • RFC 6243 With-Defaults capability for NETCONF  • RFC 6202 YANG  • Cisco private MIBS   Management interfaces  • Web-based: HTTP/HTTPS  • Command-line interface: Telnet, Secure Shell (SSH)  Protocol, serial port  • SNMP  • NETCONF  Hard Disk Drives (HDD)  • SATA Solid-State Drive (SSD)  • 240 GB of memory  Departing temperature:  • Normal: 5° to 40° C (41° to 104°F)  • Short term: 5° to 50° C (410° to 122°F)  Nonoperating temperature:  • Ad0° to 65° C (-104° to 149°F)  |                                    |   |
| Extensions  RFC 2819 Remote Monitoring (RMON) MIB  RFC 2863 Interfaces Group MIB  RFC 2863 Interfaces Group MIB  RFC 3164 Syslog  RFC 3414 User-Based Security Model (USM) for SNMPv3  RFC 3418 MIB for SNMP  RFC 3636 Definitions of Managed Objects for IEEE 802.3  MAUs  RFC 4741 Base NETCONF protocol  RFC 4742 NETCONF over SSH  RFC 6241 NETCONF  RFC 6241 NETCONF  RFC 6241 NETCONF over SSH  RFC 5277 NETCONF event notifications  RFC 5717 Partial Lock Remote Procedure Call  RFC 6243 With-Defaults capability for NETCONF  RFC 6020 YANG  Cisco private MIBs  Management interfaces  Web-based: HTTP/HTTPS  Command-line interface: Telnet, Secure Shell (SSH)  Protocol, serial port  SMMP  NETCONF  NETCONF  BATA Solid-State Drive (SSD)  240 GB of memory  Operating temperature:  Normal: 5° to 40° C (41° to 104°F)  Short term: 5° to 50° C (41° to 104°F)  Nonoperating temperature:  -40° to 65° C (-104° to 149°F)  |                                    |   |
| <ul> <li>RFC 2819 Remote Monitoring (RMON) MIB</li> <li>RFC 2863 Interfaces Group MIB</li> <li>RFC 3164 Syslog</li> <li>RFC 3164 Syslog</li> <li>RFC 3414 User-Based Security Model (USM) for SNMPv3</li> <li>RFC 3418 MIB for SNMP</li> <li>RFC 3436 Definitions of Managed Objects for IEEE 802.3 MAUs</li> <li>RFC 4741 Base NETCONF protocol</li> <li>RFC 4742 NETCONF over SSH</li> <li>RFC 6241 NETCONF</li> <li>RFC 6242 NETCONF over SSH</li> <li>RFC 5277 NETCONF event notifications</li> <li>RFC 5717 Partial Lock Remote Procedure Call</li> <li>RFC 62423 With-Defaults capability for NETCONF</li> <li>RFC 6020 YANG</li> <li>Cisco private MIBs</li> <li>Management interfaces</li> <li>Web-based: HTTP/HTTPS</li> <li>Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port</li> <li>SNMP</li> <li>NETCONF</li> <li>Hard Disk Drives (HDD)</li> <li>SATA Solid-State Drive (SSD)</li> <li>240 GB of memory</li> <li>Operating temperature:</li> <li>Normal: 5° to 40° C (41° to 104°F)</li> <li>Short term: 5° to 50° C (41° to 122°F)</li> <li>Nonoperating temperature:</li> <li>-40° to 55° C (-104° to 149°F)</li> </ul>  |                                    |   |
| • RFC 2863 Interfaces Group MIB • RFC 3164 Syslog • RFC 3144 Syslog • RFC 3414 User-Based Security Model (USM) for SNMPv3 • RFC 3418 MIB for SNMP • RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs • RFC 4741 Base NETCONF protocol • RFC 4742 NETCONF over SSH • RFC 6241 NETCONF • RFC 6242 NETCONF over SSH • RFC 5277 NETCONF event notifications • RFC 5717 Partial Lock Remote Procedure Call • RFC 6243 With-Defaults capability for NETCONF • RFC 6020 YANG • Cisco private MIBs  Management interfaces  Management interfaces  Management interface: Telnet, Secure Shell (SSH) • NetCONF • SNMP • NETCONF  Bard Disk Drives (HDD)  • SATA Solid-State Drive (SSD) • 240 GB of memory  Environmental conditions supported  Operating temperature: • Normal: 5° to 50° C (41° to 104°F) • Short term: 5° to 50° C (41° to 102°F) Nonoperating temperature: • -40° to 65° C (-104° to 149°F)   |                                    |   |
| • RFC 3164 Syslog • RFC 3414 User-Based Security Model (USM) for SNMPv3 • RFC 3418 MIB for SNMP • RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs • RFC 4741 Base NETCONF protocol • RFC 4742 NETCONF over SSH • RFC 6242 NETCONF over SSH • RFC 6242 NETCONF over SSH • RFC 5277 NETCONF event notifications • RFC 5277 NETCONF event notifications • RFC 5277 NETCONF event notifications • RFC 6242 With-Defaults capability for NETCONF • RFC 6020 YANG • Cisco private MIBs  Management interfaces • Web-based: HTTP/HTTPS • Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port • SNMP • NETCONF  Hard Disk Drives (HDD) • SATA Solid-State Drive (SSD) • 240 GB of memory  Environmental conditions supported  Operating temperature: • Normal: 5° to 40° C (41° to 104°F) • Short term: 5° to 50° C (41° to 102°F) Nonoperating temperature: • -40° to 65° C (-104° to 192°F) Nonoperating temperature: • -40° to 65° C (-104° to 192°F)  |                                    |   |
| • RFC 3414 User-Based Security Model (USM) for SNMPV3 • RFC 3418 MIB for SNMP • RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs • RFC 4741 Base NETCONF protocol • RFC 4742 NETCONF over SSH • RFC 6241 NETCONF • RFC 6242 NETCONF over SSH • RFC 6242 NETCONF over SSH • RFC 5717 Partial Lock Remote Procedure Call • RFC 6243 With-Defaults capability for NETCONF • RFC 6020 YANG • Cisco private MIBs  Management interfaces  Management interfaces  Meb-based: HTTP/HTTPS • Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port • SNMP • NETCONF  Hard Disk Drives (HDD)  SATA Solid-State Drive (SSD) • 240 GB of memory  Operating temperature: • Normal: 5° to 40° C (41° to 104°F) • Sohort term: 5° to 50° C (41° to 102°F) Nonoperating temperature: • -40° to 65° C (-104° to 149°F)   |                                    | -   |
| • RFC 3418 MIB for SNMP • RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs • RFC 4741 Base NETCONF protocol • RFC 4742 NETCONF over SSH • RFC 6241 NETCONF • RFC 6242 NETCONF over SSH • RFC 5277 NETCONF event notifications • RFC 5717 Partial Lock Remote Procedure Call • RFC 6243 With-Defaults capability for NETCONF • RFC 6020 YANG • Cisco private MIBs  Management interfaces  Meb-based: HTTP/HTTPS • Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port • SNMP • NETCONF  BATA Solid-State Drive (SSD) • 240 GB of memory  Environmental conditions supported  Operating temperature: • Normal: 5° to 40° C (41° to 104°F) • Short term: 5° to 50° C (41° to 122°F) Nonoperating temperature: • -40° to 65° C (-104° to 149°F)  |                                    | • •   |
| <ul> <li>RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs</li> <li>RFC 4741 Base NETCONF protocol</li> <li>RFC 4742 NETCONF over SSH</li> <li>RFC 6241 NETCONF</li> <li>RFC 6242 NETCONF over SSH</li> <li>RFC 5277 NETCONF event notifications</li> <li>RFC 5277 NETCONF event notifications</li> <li>RFC 6243 With-Defaults capability for NETCONF</li> <li>RFC 6209 YANG</li> <li>Cisco private MIBs</li> <li>Management interfaces</li> <li>Web-based: HTTP/HTTPS</li> <li>Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port</li> <li>SNMP</li> <li>NETCONF</li> <li>Hard Disk Drives (HDD)</li> <li>SATA Solid-State Drive (SSD)</li> <li>240 GB of memory</li> <li>Operating temperature:</li> <li>Normal: 5° to 40° C (41° to 104°F)</li> <li>Short term: 5° to 50° C (41° to 1022°F)</li> <li>Nonoperating temperature:</li> <li>-40° to 65° C (-104° to 149°F)</li> </ul>   |                                    |   |
| MAUS  RFC 4741 Base NETCONF protocol  RFC 4742 NETCONF over SSH  RFC 6241 NETCONF  RFC 6242 NETCONF over SSH  RFC 5277 NETCONF event notifications  RFC 5717 Partial Lock Remote Procedure Call  RFC 6243 With-Defaults capability for NETCONF  RFC 6020 YANG  Cisco private MIBs  Management interfaces  Web-based: HTTP/HTTPS  Command-line interface: Telnet, Secure Shell (SSH)  Protocol, serial port  SNMP  NETCONF  Hard Disk Drives (HDD)  SATA Solid-State Drive (SSD)  240 GB of memory  Departing temperature:  Normal: 5° to 40° C (41° to 104°F)  Short term: 5° to 50° C (41° to 122°F)  Nonoperating temperature:  -40° to 65° C (-104° to 149°F)   |                                    |   |
| • RFC 4741 Base NETCONF protocol • RFC 4742 NETCONF over SSH • RFC 6241 NETCONF • RFC 6241 NETCONF over SSH • RFC 6242 NETCONF over SSH • RFC 6242 NETCONF over SSH • RFC 6242 NETCONF over SSH • RFC 5277 NETCONF event notifications • RFC 5717 Partial Lock Remote Procedure Call • RFC 6243 With-Defaults capability for NETCONF • RFC 6020 YANG • Cisco private MIBs  Management interfaces • Web-based: HTTP/HTTPS • Command-line interface: Telnet, Secure Shell (SSH) • Protocol, serial port • SNMP • NETCONF  Hard Disk Drives (HDD) • SATA Solid-State Drive (SSD) • 240 GB of memory  Environmental conditions supported • Operating temperature: • Normal: 5° to 40° C (41° to 104°F) • Short term: 5° to 50° C (41° to 122°F) Nonoperating temperature: • -40° to 65° C (-104° to 149°F)   |                                    | 5   |
| • RFC 4742 NETCONF over SSH • RFC 6241 NETCONF • RFC 6242 NETCONF over SSH • RFC 5277 NETCONF event notifications • RFC 5717 Partial Lock Remote Procedure Call • RFC 6243 With-Defaults capability for NETCONF • RFC 6020 YANG • Cisco private MIBs  Management interfaces  • Web-based: HTTP/HTTPS • Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port • SNMP • NETCONF  Hard Disk Drives (HDD)  • SATA Solid-State Drive (SSD) • 240 GB of memory  Operating temperature: • Normal: 5° to 40° C (41° to 104°F) • Short term: 5° to 50° C (41° to 122°F) Nonoperating temperature: • -40° to 65° C (-104° to 149°F)   |                                    |   |
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| • RFC 5277 NETCONF event notifications • RFC 5717 Partial Lock Remote Procedure Call • RFC 6243 With-Defaults capability for NETCONF • RFC 6020 YANG • Cisco private MIBs  Management interfaces • Web-based: HTTP/HTTPS • Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port • SNMP • NETCONF  Hard Disk Drives (HDD) • SATA Solid-State Drive (SSD) • 240 GB of memory  Environmental conditions supported • Normal: 5° to 40° C (41° to 104°F) • Short term: 5° to 50° C (41° to 122°F) Nonoperating temperature: • -40° to 65° C (-104° to 149°F)  |                                    | • RFC 6241 NETCONF  |
| • RFC 5717 Partial Lock Remote Procedure Call • RFC 6243 With-Defaults capability for NETCONF • RFC 6020 YANG • Cisco private MIBs  Management interfaces • Web-based: HTTP/HTTPS • Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port • SNMP • NETCONF  Hard Disk Drives (HDD) • SATA Solid-State Drive (SSD) • 240 GB of memory  Environmental conditions supported • Normal: 5° to 40° C (41° to 104°F) • Short term: 5° to 50° C (41° to 122°F) Nonoperating temperature: • -40° to 65° C (-104° to 149°F)   |                                    | • RFC 6242 NETCONF over SSH   |
| <ul> <li>RFC 6243 With-Defaults capability for NETCONF</li> <li>RFC 6020 YANG</li> <li>Cisco private MIBs</li> <li>Web-based: HTTP/HTTPS</li> <li>Command-line interface: Telnet, Secure Shell (SSH)</li> <li>Protocol, serial port</li> <li>SNMP</li> <li>NETCONF</li> <li>Hard Disk Drives (HDD)</li> <li>SATA Solid-State Drive (SSD)</li> <li>240 GB of memory</li> <li>Environmental conditions supported</li> <li>Operating temperature:         <ul> <li>Normal: 5° to 40° C (41° to 104°F)</li> <li>Short term: 5° to 50° C (41° to 122°F)</li> </ul> </li> <li>Nonoperating temperature:         <ul> <li>-40° to 65° C (-104° to 149°F)</li> </ul> </li> </ul>   |                                    | • RFC 5277 NETCONF event notifications  |
| <ul> <li>RFC 6243 With-Defaults capability for NETCONF</li> <li>RFC 6020 YANG</li> <li>Cisco private MIBs</li> <li>Web-based: HTTP/HTTPS</li> <li>Command-line interface: Telnet, Secure Shell (SSH)</li> <li>Protocol, serial port</li> <li>SNMP</li> <li>NETCONF</li> <li>Hard Disk Drives (HDD)</li> <li>SATA Solid-State Drive (SSD)</li> <li>240 GB of memory</li> <li>Environmental conditions supported</li> <li>Operating temperature:         <ul> <li>Normal: 5° to 40° C (41° to 104°F)</li> <li>Short term: 5° to 50° C (41° to 122°F)</li> </ul> </li> <li>Nonoperating temperature:         <ul> <li>-40° to 65° C (-104° to 149°F)</li> </ul> </li> </ul>   |                                    |   |
| <ul> <li>RFC 6020 YANG</li> <li>Cisco private MIBs</li> <li>Web-based: HTTP/HTTPS</li> <li>Command-line interface: Telnet, Secure Shell (SSH)</li> <li>Protocol, serial port</li> <li>SNMP</li> <li>NETCONF</li> <li>Hard Disk Drives (HDD)</li> <li>SATA Solid-State Drive (SSD)</li> <li>240 GB of memory</li> <li>Environmental conditions supported</li> <li>Operating temperature:         <ul> <li>Normal: 5° to 40° C (41° to 104°F)</li> <li>Short term: 5° to 50° C (41° to 122°F)</li> </ul> </li> <li>Nonoperating temperature:         <ul> <li>-40° to 65° C (-104° to 149°F)</li> </ul> </li> </ul>  |                                    |   |
| Management interfaces       ● Cisco private MIBs         • Web-based: HTTP/HTTPS       ● Command-line interface: Telnet, Secure Shell (SSH)         Protocol, serial port       ● SNMP         • NETCONF         Hard Disk Drives (HDD)       ● SATA Solid-State Drive (SSD)         • 240 GB of memory         Coperating temperature:       ● Normal: 5° to 40° C (41° to 104°F)         • Short term: 5° to 50° C (41° to 122°F)         Nonoperating temperature:       ● -40° to 65° C (-104° to 149°F)   |                                    |   |
| Management interfaces  ● Web-based: HTTP/HTTPS  ● Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port  ● SNMP  ● NETCONF  Hard Disk Drives (HDD)  ● SATA Solid-State Drive (SSD)  ● 240 GB of memory  Operating temperature:  ● Normal: 5° to 40° C (41° to 104°F)  ● Short term: 5° to 50° C (41° to 122°F) Nonoperating temperature:  ● -40° to 65° C (-104° to 149°F)  |                                    |   |
| • Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port • SNMP • NETCONF  Hard Disk Drives (HDD) • SATA Solid-State Drive (SSD) • 240 GB of memory  Environmental conditions supported • Normal: 5° to 40° C (41° to 104°F) • Short term: 5° to 50° C (41° to 122°F) Nonoperating temperature: • -40° to 65° C (-104° to 149°F)   | Management interfaces              | *   |
| Protocol, serial port  SNMP  NETCONF  SATA Solid-State Drive (SSD)  240 GB of memory  Protocol, serial port  NETCONF  SATA Solid-State Drive (SSD)  240 GB of memory  Operating temperature:  Normal: 5° to 40° C (41° to 104°F)  Short term: 5° to 50° C (41° to 122°F)  Nonoperating temperature:  -40° to 65° C (-104° to 149°F)  |                                    |   |
| <ul> <li>SNMP         <ul> <li>NETCONF</li> </ul> </li> <li>Hard Disk Drives (HDD)         <ul> <li>SATA Solid-State Drive (SSD)</li> <li>240 GB of memory</li> </ul> </li> <li>Departing temperature:         <ul> <li>Normal: 5° to 40° C (41° to 104°F)</li> <li>Short term: 5° to 50° C (41° to 122°F)</li> <li>Nonoperating temperature:                   <ul> <li>-40° to 65° C (-104° to 149°F)</li> </ul> </li> </ul> </li> </ul>   |                                    |   |
| <ul> <li>NETCONF</li> <li>SATA Solid-State Drive (SSD)</li> <li>240 GB of memory</li> <li>Operating temperature:</li> <li>Normal: 5° to 40° C (41° to 104°F)</li> <li>Short term: 5° to 50° C (41° to 122°F)</li> <li>Nonoperating temperature:</li> <li>-40° to 65° C (-104° to 149°F)</li> </ul>   |                                    | -   |
| Hard Disk Drives (HDD)  • SATA Solid-State Drive (SSD) • 240 GB of memory  Operating temperature: • Normal: 5° to 40° C (41° to 104°F) • Short term: 5° to 50° C (41° to 122°F) Nonoperating temperature: • -40° to 65° C (-104° to 149°F)   |                                    |   |
| <ul> <li>240 GB of memory</li> <li>Departing temperature:         <ul> <li>Normal: 5° to 40° C (41° to 104°F)</li> <li>Short term: 5° to 50° C (41° to 122°F)</li> </ul> </li> <li>Nonoperating temperature:         <ul> <li>-40° to 65° C (-104° to 149°F)</li> </ul> </li> </ul>  | Hard Dielz Drives (HDD)            |   |
| Environmental conditions supported  Operating temperature:  Normal: 5° to 40° C (41° to 104°F)  Short term: 5° to 50° C (41° to 122°F)  Nonoperating temperature:  -40° to 65° C (-104° to 149°F)  | naru Disk Drives (HDD)             |   |
| <ul> <li>Normal: 5° to 40° C (41° to 104°F)</li> <li>Short term: 5° to 50° C (41° to 122°F)</li> <li>Nonoperating temperature:</li> <li>-40° to 65° C (-104° to 149°F)</li> </ul>  | Ti                                 | ·   |
| <ul> <li>Short term: 5° to 50° C (41° to 122°F)</li> <li>Nonoperating temperature:</li> <li>-40° to 65° C (-104° to 149°F)</li> </ul>  | Environmental conditions supported |   |
| Nonoperating temperature:  • -40° to 65° C (-104° to 149°F)  |                                    | · · · · · · · · · · · · · · · · · · ·   |
| • -40° to 65° C (-104° to 149°F)   |                                    | · · · · · · · · · · · · · · · · · · ·   |
|  |                                    |   |
| Operating humidity:  |                                    |   |
|  |                                    | Operating humidity:   |

• Nominal: 5% to 85% no-condensing • Short term: 5% to 90% noncondensing Nonoperating temperature humidity: • 5% to 93% at 82°F (28°C) Operating altitude: • Appliance operating: 0 to 3000 m (0 to 10,000 ft) • Appliance nonoperating: 0 to 12,192 m (0 to 40,000 ft) Electrical input: • AC input frequency range: 47 to 63 Hz • AC input range: 90 to 264 VAC with AC PEM • 1100W AC with optional redundant power supply (hotswappable) Maximum power: 381W Heat dissipation: 1,300 BTU/hr Sound power level measure: • A-weighted sound power level is 74.1 LpAm(dBA) @ 27C nominal operation Regulatory compliance Safety: • UL/CSA 60950-1 • IEC/EN 60950-1 AS/NZS 60950.1 • CAN/CSA-C22.2 No. 60950-1 EMC - Emissions - Class A • FCC 47CFR15 • AS/NZS CISPR 22 • CISPR 22 • EN55022/EN55032 (EMI-1) • ICES-003 VCCI • KN 32 (EMI-2) • CNS-13438 EMC – Emissions: • EN61000-3-2 Power Line Harmonics (EMI-3) • EN61000-3-3 Voltage Changes, Fluctuations, and Flicker (EMI-3) EMC – Immunity: • IEC/EN61000-4-2 Electrostatic Discharge Immunity • IEC/EN61000-4-3 Radiated Immunity • IEC/EN61000-4-4 EFT-B Immunity (AC Power Leads) • IEC/EN61000-4-4 EFT-B Immunity (DC Power Leads) • IEC/EN61000-4-4 EFT-B Immunity (Signal Leads) • IEC/EN61000-4-5 Surge AC Port • IEC/EN61000-4-5 Surge DC Port • IEC/EN61000-4-5 Surge Signal Port • IEC/EN61000-4-6 Immunity to Conducted Disturbances • IEC/EN61000-4-8 Power Frequency Magnetic Field • IEC/EN61000-4-11 Voltage Dips, Short Interruptions, and Voltage Variations • K35 (EMI-2) EMC (ETSI/EN) • EN 300 386 Telecommunications Network Equipment (EMC) (EMC-3) • EN55022 Information Technology Equipment (Emissions) • EN55024/CISPR 24 Information Technology Equipment • EN50082-1/EN61000-6-1 Generic Immunity Standard

(EMC-4)