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Refurbished CISCO PWR2-20W-AC Datasheet

CISCO > ROUTERS

Cisco 800 Series Routers

Features and Benefits of Cisco 819

Smallest Cisco ISR in both Hardened and Non-hardened Form Factors

Single platform for multiple applications	This single architecture is uniquely designed for deployments in multiple remote applications such as ATM machines, kiosks, small branch offices, remote teleworker sites, gas stations, telemetry, etc. and across all industries. Hardened models extend the ISR footprint into deployments wherein the router is exposed to extreme environmental conditions such as heat dissipation, exposure to extreme temperatures, dust, splash water, shock and vibration..
Hardened Router Industrial-grade components	The hardened router supports extended temperature ranges from –13 to 140ºF (–25 to 60ºC). Meets 95 percent of the Non-Condensing Humidity Requirements, IP 41 per IEC 60529 for Vertical Falling Water and Pollution 3 for Dust. The router meets MIL-STD-810, SAEJ1455, and ENG3396 for Shock and Vibe standards. Supports a variety of mounting options, including 35-mm din-rail per EN60715, floor mount, and wall mount, and offers both AC and DC* power options allowing for deployment flexibility..
Lightweight, compact size with low power consumption	Can be deployed in many different environments where space, heat dissipation, and low power consumption are critical factors.
Increased performance to run concurrent services	Performance allows customers to take advantage of broadband network speeds while running secure, concurrent data, voice, video, and wireless services.
Enhanced security	An integrated stateful and application inspection firewall provides network perimeter security and high-speed IP Security (IPsec); 3DES and AES encryption offer data privacy over the Internet. Intrusion prevention enforces security policies in a larger enterprise or service provider network. Content filtering offers category-based URL classification and blocking, thus providing increased productivity and better use of company resources. ScanSafe web security and filtering solution that requires no additional hardware or client software. Enables remote locations to intelligently redirect web traffic to the cloud to enforce granular security and acceptable use policies over user web traffic.

Multiple WAN and LAN Connections

Four-port 10/100-Mbps managed switch	Allows for multiple Ethernet device connectivity in a small office or other remote location with the ability to designate a port as the network edge. VLANs allow for secure segmentation of network resources. Multiple LAN and WAN devices can be connected to standard 10/100/Ethernet or serial interfaces.

Transparent Roaming Between Wireless Networks

Dual subscriber-identity-module (SIM) support	Hardware readiness for Dual SIM provides for high reliability and cellular multi-homing support for HSPA-based networks.
Cisco IOS Mobile IP features	Mobile IP offers transparent roaming for mobile networks, establishing a transparent Internet connection regardless of location or movement. This enables mission-critical applications to stay connected even when roaming between networks. Assigned IP addresses to the home network are maintained in private or public networks.
Cisco IOS Mobile network features	Allows an entire subnet or mobile network to maintain connectivity to the home network while roaming.

Advanced IP Services in Standards-Based Cisco IOS Software

Advanced security features	Authorization and authentication determines which individuals and devices have access to the network. Firewall protection provides perimeter security when using public networks. 3DES and AES encryption provides for highly secure VPNs when transmitting and receiving data over public networks. Intrusion detection monitors potential malicious activity within the network.
QoS features	Provides traffic precedence to delay-sensitive or prioritized applications. Facilitates low-latency routing of delay-sensitive applications such as streaming video.

IP Multicast	Allows efficient broadcast of data or video for increased situational awareness, multiuser communications, or surveillance applications.
Management and manageability	Network managers can remotely manage and monitor networks with SNMP, Telnet, or HTTP, and locally through a console port. Support for extensive 3G- and 4G LTE-based MIBs allows for centralized management of remote devices and gives network managers visibility and control of the network configurations at the remote site. Network managers can reset to a pre-designated golden image as well as configure an ISR through Cisco IOS Software or through an external reset button. Network managers can upgrade 3G, 3.5G and 3.7G (4G???) firmware and router configurations remotely and confirm enhancement verification. Tight integration with Cisco IOS Software allows you to self-monitor the functions of the 3G, 3.5G and 3.7G (4G???) modems and auto-recover from a failure. Cisco Configuration Professional provides a web-based tool that simplifies setup and deployment. Intuitive network management tools such as CiscoWorks and HP OpenView are supported.

Cisco IOS Software Features on Cisco 819: Advanced IP Features Set (Default)

Feature	
Cisco IOS Software requirement	Cisco IOS Software Release 15.2(4)M1 or later for 819H, 819HW and 819HGW SKUs. Cisco IOS Software Release 15.1(4)M1 or later for 819(H)G SKUs
IP and IP services features	Routing Information Protocol Versions 1 and 2 (RIPv1 and RIPv2) Generic routing encapsulation (GRE) and multipoint GRE (MGRE) Cisco Express Forwarding Standard 802.1d Spanning Tree Protocol Layer 2 Tunneling Protocol (L2TP) Layer 2 Tunneling Protocol Version 3 (L2TPv3) Network Address Translation Dynamic Host Configuration Protocol (DHCP) server, relay, and client Dynamic Domain Name System (DNS) DNS Proxy DNS Spoofing Access control lists (ACLs) IPv4 and IPv6 Multicast Open Shortest Path First (OSPF) Border Gateway Protocol (BGP) Performance Routing (PfR) Enhanced Interior Gateway Routing Protocol (EIGRP) Virtual Route Forwarding (VRF) Lite Next Hop Resolution Protocol (NHRP) Bidirectional Forwarding Detection (BFD) Web Cache Communication Protocol (WCCP)
Switch features	Auto Media Device In/Media Device Cross Over (MDI-MDX) 8 802.1Q VLANs MAC filtering Switched Port Analyzer (SPAN) Storm control Smart ports Secure MAC address Internet Group Management Protocol Version 3 (IGMPv3) snooping 802.1x
Security features	Secure connectivity: Secure Sockets Layer (SSL) VPN for secure remote access Hardware-accelerated DES, 3DES, AES 128, AES 192, and AES 256 Public-key-infrastructure (PKI) support 20 IPsec tunnels Cisco Easy VPN Client and Server NAT transparency Dynamic Multipoint VPN (DMVPN) Tunnel-less Group Encrypted Transport VPN IPsec stateful failover VRF-aware IPsec IPsec over IPv6 Adaptive control technology Session Initiation Protocol (SIP) application layer gateway Cisco IOS Firewall: Zone-Based Policy Firewall VRF-aware stateful inspection routing firewall Stateful inspection transparent firewall Advanced application inspection and control Secure HTTP (HTTPS), FTP, and Telnet Authentication Proxy Dynamic and static port security Firewall stateful failover VRF-aware firewall Content filtering: Subscription-based content filtering with Trend Micro

	Support for Websense and SmartFilter Cisco IOS Software black and white lists Integrated threat control: Intrusion prevention system (IPS) Control Plane Policing Flexible Packet Matching Network foundation protection Scansafe: Web security and web filtering solution that requires no additional hardware or client software . Cisco ScanSafe enables branch offices to intelligently redirect web traffic to the cloud to enforce granular security and acceptable use policies over user web traffic. With this solution, you can deploy market-leading web security quickly and easily to protect branch office users from web-based threats, such as viruses, while saving bandwidth, money, and resources.
QoS features	Low Latency Queuing (LLQ) Weighted Fair Queuing (WFQ) Class-Based WFQ (CBWFQ) Class-Based Traffic Shaping (CBTS) Class-Based Traffic Policing (CBTP) Policy-Based Routing (PBR) Class-Based QoS MIB Class of service (CoS)-to-differentiated services code point (DSCP) mapping Class-Based Weighted Random Early Detection (CBWRED) Network-Based Application Recognition (NBAR) Link fragmentation and interleaving (LFI) Resource Reservation Protocol (RSVP) Real-Time Transport Protocol (RTP) header compression (cRTP) Differentiated Services (DiffServ) QoS preclassify and prefragmentation Hierarchical QoS (HQoS)
Management features	Cisco Configuration Professional Cisco Configuration Express Cisco Configuration Engine support Cisco AutoInstall IP service-level agreement (IP SLA) Cisco IOS Embedded Event Manager (EEM) CiscoWorks Cisco Security Manager Telnet, SNMPv3, SSH, CLI, and HTTP management RADIUS and TACACS+ Out-of-band management with external modem through virtual auxiliary port
High-availability features	Virtual Router Redundancy Protocol (VRRP) (RFC 2338) Hot Standby Router Protocol (HSRP) Multigroup HSRP (MHSRP) Dial backup with external modem through virtual auxiliary port Dual SIM support for cellular multihoming
Metro Ethernet features	Ethernet operations, administration, and maintenance (OAM) Ethernet Local Management Interface (LMI) IP SLA for Ethernet
IPv6 features	IPv6 addressing architecture IPv6 name resolution IPv6 statistics IPv6 translation: Transport packets between IPv6-only and IPv4-only endpoints (NAT-PT) Internet Control Message Protocol Version 6 (ICMPv6) IPv6 DHCP
Number of recommended users	20

System Specifications

Memory

Default and maximum DRAM	819(H)G(with 3G only): 512 MB 819HGW, 819HWD (with WiFi) and 819H: 1GB

Interface Support

Console or auxiliary port	RJ-45: Single dual-purpose port, which provides direct connection to a console or external modem for management or backup access point
Mini-USB port (RSVD)	Mini-USB port to support remote 3G diagnostics and monitoring tools (QUALCOMM CAIT and Spirent UDM)*
WAN interfaces	Wireless WAN with 3G, 3.5G and 3.7G speeds 10/100/1000 Gigabit Ethernet port Cisco Smart Serial Interface (sync/async/bisync)

WLAN Features	2x3 multiple-input multiple-output (MIMO) with two spatial streams Maximal ratio combining (MRC) Legacy beamforming 20- and 40-MHz channels PHY data rates up to 300 Mbps Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) 802.11 dynamic frequency selection (DFS) Cyclic shift diversity (CSD) support
LAN interfaces	Four 10/100 Fast Ethernet ports
LEDs	System OK (green/amber) Activity (green) WWAN (green/amber) SIM status (green/amber) RSSI (green) 3G service (green/amber) GPS (green/amber) Speed and link for Gigabit Ethernet WAN port (green) Speed and link for all Fast Ethernet LAN ports (green)
Serial WAN interface	Support for both synchronous and asynchronous modes Synchronous maximum speed of up to 8 Mbps Asynchronous maximum speed of up to 115.2 kbps Support for bisync modes Support for network clock synchronization
Serial protocol support	EIA-232, EIA-449, EIA-530, EIA-530A, V.35, and X.21
Cisco Smart Serial Cabling	Cisco Smart Serial connectors and supported cables:

The next steps...

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