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Refurbished CISCO 12000-SIP-501 Datasheet

CISCO > ROUTERS

Cisco 12000 Series Routers

Product Features

Provider edge	High number of IPv4, IPv6, Multiprotocol Label Switching (MPLS), and MPLS VPN unicast and multicast routes: up to 1 million IPv4/MPLS or 512,000 IPv6 route entries. High-density Gigabit Ethernet aggregation capability with up to 20 Gigabit Ethernet ports per SIP with intelligent oversubscription Building Integrated Timing Supply (BITS) Layer 3 VPNs over MPLS (RFC 2547) and over IP (MPLS VPNs over Layer 2 Tunneling Protocol Version 3 [L2TPv3]) Layer 2 VPNs over MPLS (Any Transport over MPLS [AToM]) and over IP L2TPv3)
Protocols	Layer 3 routing protocols: Border Gateway Protocol Version 4 (BGPv4), Open Shortest Path First (OSPF), Intermediate System-to-Intermediate System (IS-IS), Enhanced Interior Gateway Routing Protocol (EIGRP), Routing Information Protocol (RIP), Distributed Forwarding Information Base (FIB) IP switching, Cisco Discovery Protocol, Internet Control Message Protocol (ICMP), Routing with Resource Reservation (RRR), and others Hot Standby Router Protocol (HSRP) and Virtual Router Redundancy Protocol (VRRP) Multicast forwarding with support for source and shared distribution trees and the following protocols: Protocol Independent Multicast-dense mode (PIM-DM); PIM-sparse mode (PIM-SM); Internet Group Management Protocol Versions 1 and 1 (IGMPv1/v2); Cisco Group Management Protocol (GMP); Multiprotocol Border Gateway Protocol (MBGP); Multicast Source Discovery Protocol (MSDP); and others Comprehensive MPLS protocols such as LDP, RSVP-TE
Reliability and availability	Online insertion and removal (OIR) enabling insertion and removal of line cards without affecting traffic Multirouter automatic protection switching (MR-APS) Layer 3 nonstop forwarding (NSF) and stateful switchover (SSO)
Network management	Cisco IOS ® Software and Cisco IOS XR Software command-line interface (CLI) Simple Network Management Protocol (SNMP) Management Information Base (MIB)
Statistics and accounting	Per-VLAN and source-destination MAC address filtering and accounting Per-class accounting through Modular QoS CLI (MQC) MIB Border Gateway Protocol (BGP) (source and destination) policy accounting Input and output full NetFlow Version 8 in hardware Input and output sampled NetFlow, Versions 5, 8, and 9 in hardware Byte and packet counting per ingress port for IP and MPLS packets Byte and packet counting per ingress port for IP and MPLS type-of-service (ToS) bits Bytes and Packet counting for Modified Deficit Round Robin (MDRR) and Weighted Random Early Detection (WRED) functions Packet and byte counting for committed-access-rate (CAR) feature Counting per ingress port for IP prefixes and Cisco Express Forwarding adjacencies
Security	Access control lists (ACLs) Unicast Reverse Path Forwarding (URPF) Filtering on source or destination IP addresses, on transport protocols, or at input or output interfaces
QoS	Hierarchical traffic rate limiting, traffic shaping, and marking using committed access rate (CAR) or MQC Traffic prioritization and congestion control through Modified Deficit Round Robin (MDRR), Weighted Random Early Detection (WRED), and Low-Latency Queuing (LLQ) Dynamic queue allocation of 4096 input-shaped queues to any interface (or subinterface), regardless of encapsulation Advanced queue allocation software providing the ability to dynamically map queues to both main interfaces as well as 802.1q Ethernet VLANs, Frame Relay subinterfaces, and ATM virtual circuits Input queuing: 2048 unicast MDRR queues, 16 high-priority queues, 8 multicast queues, and 2 fabric priority queues Output queuing: 8192 MDRR queues dynamically shared across all SPAs

Compliance and Agency Approvals

Environmental	Operating temperature: 41 to 104°F (5 to 40°C)

	Storage temperature: -40 to 158°F (-40 to 70°C) Relative humidity: 5 to 85%, noncondensing, operating conditions Up to 90%, noncondensing, nonoperating conditions, not to exceed 0.024 kg of water per kg of dry air
Safety	UL/CSA/IEC/EN 60950-1 AS/NZS 60950
EMI	FCC Part 15 Class A ICES 003 Class A AS/NZS 3548 Class A CISPR 22 Class A EN55022 Class A VCCI Class A
Immunity (basic standards)	IEC/EN61000-4-2 Electrostatic Discharge Immunity (8-kV contact, 15-V air) IEC/EN61000-4-3 Radiated Immunity (10 V/m)
ETSI and EN	EN 300 386 Telecommunications Network Equipment (EMC) EN55022 Information Technology Equipment (Emissions) EN55024 Information Technology Equipment (Immunity) EN50082-1/EN61000-6-1 Generic Immunity Standard
Network Equipment Building Standards (NEBS)	This product is designed to meet the following requirements: GR-1089-CORE EMC and Safety GR-63-CORE Physical Protection SR-3580 NEBS Criteria Levels (Level 3)

The next steps...

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