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Refurbished CISCO 4GE-SFP-LC Datasheet

CISCO > ROUTERS

Cisco XR 12000 Series Router

Product Features

Performance	Line-rate throughput for IP forwarding and MPLS switching Dedicated Layer 3 forwarding engine that provides line-rate throughput for all Ethernet frame sizes Sustained performance in fully loaded system Sustained performance for all IP prefix sizes No performance drops as QoS, accounting features, committed access rate (CAR), and access control lists (ACLs) are enabled
Reliability and Availability	Online insertion and removal (OIR), enabling insertion and removal of line cards and SFP modules without impacting traffic
Network Management	Cisco IOS ® Software command-line interface (CLI) Cisco 12000 Manager for configuration, fault, and performance element management Simple Network Management Protocol (SNMP)
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 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 support Traffic engineering using RRR
IP and MPLS Traffic Engineering (MPLS TE)	IP and MPLS load balancing MPLS, VPN mapping, and Ethernet over MPLS (EoMPLS)
Statistics and Accounting	Byte and packet counting per ingress port for IP and MPLS packets Packet counting for Modified Deficit Round Robin (MDRR) and Weighted Random Early Detection (WRED) Sampled NetFlow (v5 and v8)
Security	15,000 xACLs in the ingress side per port and per VLAN; 20,000 entries on ingress and egress at line rate supported on 4-port GE ISE line card 1024 ACLs on the egress side on per-port basis
QoS	8 queues per port, WRED and MDRR per port and queue Rate limiting on the ingress and egress side Traffic shaping on the egress side
Ethernet	802.1q VLAN support, 1024 VLANs, and jumbo frames Source and destination MAC accounting and VLAN accounting
Cisco IPv6	Provider edge router without compromising performance (supported on 4-port GE ISE line cards)

Compliance and Agency Approvals

Environmental	Operating temperature: 41 to 104°F (5 to 40°C) Operating temperature (short-term): 23 to 131°F (-5 to 55°C) Storage temperature: -4 to 149°F (-20 to 65°C) Relative humidity: 5 to 85%, noncondensing, operating conditions 5 to 90%, noncondensing, operating conditions (short-term) Up to 95%, noncondensing, nonoperating conditions Operating altitude: -60 to 4000m
Safety	UL 1950 CSA 22.2-No. 950

	EN60950 IEC 60950 CB Scheme ACA TS001 AS/NZS 3260 EN60825/IEC60825 laser safety (supported on 1-port 10-GE line card) FDA-Code of Federal Regulations (USA) laser (supported on 1-port 10-GE line card)
EMI	FCC CFR 47-Part 15 1998 Class A ICES 003 Class A AS/NRZ 3548 Class A EN55022 Class B (up to 1 GHz) VCCI Class A CISPR 22 Class B (up to 1 GHz) BSMI/CNS 13438: 1997 Class A IEC-1000-3-2 Power line harmonics IEC 61000-3-3 Voltage fluctuations and flicker
Immunity (Basic Standards)	IEC-1000-4-2 ESD (8-kV contact, 15-kV air) IEC-1000-4-3 Radiated immunity (10 V/m) IEC-1000-4-4 EFT (2-kV power port, 1-kV signal port) IEC-1000-4-5 Surge AC port (4-kV CM, 2-kV DM) IEC-1000-4-5 Surge Signal port (2-kV CM, 1-kV DM) IEC-1000-4-5 Surge DC port (0.5-kV CM, 0.5-kV DM) IEC-1000-4-6 Low Frequency Conductive Immunity, (10V) IEC-1000-4-11 Voltage dips and sags EN55024\CISPR24 ITE Immunity
ETSI and EN	EN 300 386
Network Equipment Building Standards (NEBS)	This product is designed to meet the following requirements: SR-3580-NEBS criteria levels (Level 3-compliant) GR-1089-Core-NEBS EMC and safety GR-63-Core-NEBS Physical protection

The next steps...

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