

WS-C4510R Datasheet

Overview

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The Cisco Catalyst 4510R offers nonblocking Layers 2 through 4 switching with integrated resiliency, further enhancing control of converged networks. Converged voice, video, and data networks with high availability enable business resiliency for enterprise and metropolitan (metro) Ethernet customers deploying Internet-based business applications.

An important component of Cisco AVVID (Architecture for Voice, Video and Integrated Data), the Cisco Catalyst 4510R extends control to the network edge with intelligent network services, including sophisticated quality of service (QoS), predictable performance, advanced security, comprehensive management, and integrated resiliency. Offering compatibility with Cisco Catalyst 4000 Series line cards and Supervisor Engines, the Cisco Catalyst 4510R provides an extended window of deployment for the Cisco Catalyst 4000 Series in converged networks. This reduces the cost of ownership by minimizing recurring operational expenses, improving return on investment (ROI).

Specification

General Information	
Manufacturer:	Cisco
Product ID:	WS-C4510R
Product Description:	Catalyst 4500 Chassis (10-Slot),fan, no p/s,Red Sup Capable
Product Type:	Switch Chassis
I/O Expansions	
Number of Total Expansion Slots:	10
Network & Communication	
Layer Supported:	4
Management & Protocols	
Manageable:	Yes

Management:	<p>Support provided by Cisco Works Resource Manager Essentials (a component of LAN Management Solution [LMS]): Builds and maintains an up-to-date hardware and software inventory</p> <p>Maintains an active archive and simplifies deployment of configuration changes to multiple devices</p> <p>Simplifies and accelerates software image analysis and automates deployment</p> <p>Records and displays comprehensive reports of software, hardware, and configuration changes Highlights critical devices and their ability to respond</p> <p>Isolates network error conditions and suggests probable causes</p> <p>Support provided by Cisco Works Resource Manager Essentials (a component of LMS):</p> <p>Network topology discovery and display services VLAN provisioning and logical display representation Traffic monitoring and performance assessment</p> <p>End station tracking with search utilities</p> <p>CiscoView graphical device management</p> <p>Network topology integrity checking</p> <p>Simple Network Management Protocol (SNMP) Version 1</p> <p>SNMP Version 2c</p> <p>Cisco Workgroup Management Information Base (MIB)</p> <p>Ethernet MIB</p> <p>Ethernet Repeater MIB</p> <p>SNMP MIB II</p> <p>Remote Monitoring (RMON)</p> <p>RMON II</p> <p>Interface table</p> <p>Bridge MIB</p> <p>Switched Port Analyzer (SPAN)</p> <p>Enhanced Switched Port Analyzer (ESpan)</p> <p>Port snooping and connection steering</p> <p>Telnet, Trivial File Transfer Protocol (TFTP), and Bootstrap Protocol (BOOTP) for management access</p>
Power Description	
Power Source:	Power Supply
Redundant Power Supply:	Yes
Physical Characteristics	
Height:	24.4"
Width:	17.3"
Depth:	12.5"
Weight (Approximate):	51.50 lb
Miscellaneous	
Package Contents:	Catalyst 4510R Switch Chassis 19-inch rack and cable guide hardware
Additional Information:	Number of Power Supply Bays: 2
	<p>Ethernet:</p> <p>IEEE 802.3: 10BASE-T</p> <p>Fast Ethernet:</p> <p>IEEE 802.3u: 100BASE-TX, 100BASE-FX</p> <p>Gigabit Ethernet:</p> <p>IEEE 802.3z</p> <p>IEEE 802.3x</p> <p>IEEE 802.3ab</p> <p>1000BASE-X (GBIC):</p> <p>1000BASE-SX</p> <p>1000BASE-LX/LH</p> <p>1000BASE-ZX</p> <p>Virtual LAN (VLAN) trunking/tagging:</p> <p>IEEE 802.1Q</p> <p>IEEE 802.3ad</p>

Certifications
& Standards:

Spanning-Tree Protocol:

IEEE 802.1D
IEEE 802.1w
IEEE 802.1s

Security:

IEEE 802.1x

Power over Ethernet (PoE):

IEEE 802.3af

RFCs:

RFCs 1155-1157
RFC 1643
RFC 1516
RFC 1213
RFC 1757
RFC 2021
RFC 1573
RFC 1493

Regulatory compliance:

CE marking

Safety:

UL 60950
CAN/CSA-C22.2 No. 60950
EN 60950
IEC 60950
TS 001
AS/NZS 3260

EMC:

FCC Part 15 (CFR 47) Class A
ICES-003 Class A
EN55022 Class A
CISPR22 Class A
AS/NZS 3548 Class A
VCCI Class A
EN 55022
EN 55024
EN 61000-6-1
EN 50082-1
EN 61000-3-2
EN 61000-3-3
ETS 300 386

GR-63-Core Network Equipment Building Standards (NEBS) Level 3
GR-1089-Core Level 3
ETS 300 019 Storage Class 1.1
ETS 300 019 Transportation Class 2.3 (pending)
ETS 300 019 Stationary Use Class 3.1
ETS 300 386

Industry EMC, safety, and environmental standards:

Telecom (E1):

CTR 12/13
CTR 4
ACA TS016

Telecom (T1):

FCC Part 68
Canada CS-03
JATE Green Book

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