

Refurbished CISCO WS-X4515-2 Datasheet

CISCO > SWITCHES

Cisco Catalyst 4500 Series Switches

Supported Line Cards and Modules	
Part Number ("=" indicates "spare")	
Part Number ("=" indicates "spare")	Product Name
WS-F4531	Cisco Catalyst 4500 NetFlow Services Card (Sup IV/V)
WS-X4248-FE-SFP (=)	Cisco Catalyst 4500 Fast Ethernet Switching Module, 48-port 100BASE-X (SFP)
WS-X4124-FX-MT(=)	Cisco Catalyst 4500 Fast Ethernet Switching Module, 24-port 100BASE-FX (MT-RJ)
WS-X4148-FX-MT(=)	Cisco Catalyst 4500 Fast Ethernet Switching Module, 48-port 100BASE-FX MMF
WS-X4148-FE-BD-LC(=)	Cisco Catalyst 4500 Series 48-port 100BASE-BX10-D Fast Ethernet Line Card for single strand of SMF
WS-X4124-RJ45(=)	Cisco Catalyst 4500 10/100 Module, 24 ports (RJ-45)
WS-X4148-RJ(=)	Cisco Catalyst 4500 10/100 Module, 48 ports (RJ-45)
WS-X4148-RJ21(=)	Cisco Catalyst 4500 10/100 Module, 48-port telco (4 x RJ-21)
WS-X4248-RJ21V(=)	Cisco Catalyst 4500 PoE IEEE 802.3af 10/100, 48 ports (RJ-21)
WS-X4224-RJ45V(=)	Cisco Catalyst 4500 PoE IEEE 802.3af 10/100, 24 ports (RJ-45)
WS-X4248-RJ45V(=)	Cisco Catalyst 4500 PoE IEEE 802.3af 10/100, 48 ports (RJ-45)
WS-X4506-GB-T(=)	Cisco Catalyst 4500 6-port 10/100/1000 RJ-45 PoE IEEE 802.3af and 1000BASE-X (SFP)
WS-X4302-GB(=)	Cisco Catalyst 4500 Gigabit Ethernet Module, 2 ports (GBIC)
WS-X4306-GB(=)	Cisco Catalyst 4500 Gigabit Ethernet Module, 6 ports (GBIC)
WS-X4418-GB(=)	Cisco Catalyst 4500 Gigabit Ethernet Module, server switching 18 ports (GBIC)
WS-X4448-GB-SFP(=)	Cisco Catalyst 4500 Gigabit Ethernet Module, 48-port 1000X (SFP)
WS-X4424-GB-RJ45(=)	Cisco Catalyst 4500 24-port 10/100/1000 Module (RJ-45)
WS-X4448-GB-RJ45(=)	Cisco Catalyst 4500 48-port 10/100/1000 Module (RJ-45)
WS-X4548-GB-RJ45(=)	Cisco Catalyst 4500 Enhanced 48-port 10/100/1000 Module (RJ-45)
WS-X4524-GB-RJ45V(=)	Cisco Catalyst 4500 PoE IEEE 802.3af 10/100/1000, 24 ports (RJ-45)
WS-X4548-GB-RJ45V(=)	Cisco Catalyst 4500 PoE IEEE 802.3af 10/100/1000, 48 ports (RJ-45)

Cisco Catalyst Supervisor Engine IV Regulatory Standards Compliance	
Specification	Standard
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 ETS 300 386 EN 55022 EN 55024 EN 61000-6-1 EN 50082-1 EN 61000-3-2 EN 61000-3-3
Industry EMC, Safety, and Environmental Standards	GR-63-Core Network Equipment Building Systems (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

Benefits of Cisco Technical Support Services

Service Feature Overview	Benefit
Software support	Cisco Technical Support Services offers maintenance and minor and major updates for licensed feature sets. Downloading new maintenance releases, patches, or updates of Cisco IOS Software helps enhance and extend the useful life of Cisco devices. Through major software updates you can extend the life of equipment and maximize application technology investments by: Adding new functions; in many cases, additions require no additional hardware investment Increasing the performance of current functions Enhancing network or application availability, reliability, and stability
Cisco TAC support	With more than 1000 highly trained customer support engineers, 390 CCIE experts, and access to 13,000 R&D engineers, Cisco TAC complements your in-house staff with a high level of knowledge in voice, video, and data communications networking technology. Its sophisticated call routing system quickly routes calls to the correct technology personnel. The Cisco TAC is available 24 hours a day, 365 days a year.
Cisco.com	This award-winning Website provides 24-hour access to an extensive collection of online product and technology information, interactive network management and troubleshooting tools, and knowledge transfer resources that can help you reduce costs by increasing the self-sufficiency and productivity of your staff.
Advance Hardware Replacement	Advance Replacement and onsite field engineer options supply fast access to replacement hardware and field resources for installing hardware, minimizing the risk of potential network downtime.

Competitive Differentiators of Cisco Technical Support Services

Feature	Benefit
Worldwide virtual lab	This extensive lab of Cisco equipment and Cisco IOS Software releases provides an invaluable engineering resource and knowledge base for training, product information, and recreation and testing of selected network problems to help decrease time to resolution.
Cisco Live	A powerful suite of Internet-enabled tools with firewall-friendly features, these secure, encrypted Java applets can turn a simple phone call into an interactive collaboration session, allowing a customer and Cisco TAC support engineer to work together more effectively.
Global logistics	Global logistics delivers award-winning, worldwide hardware replacement support with 650 depots, covering 120 countries, at a \$2.3 billion investment in inventory, taking full advantage of 10,000 onsite field engineers.
Cisco IOS Software	Cisco IOS Software employs 100 discrete technologies with more than 2000 features; 400 new features are added each year. Cisco IOS Software is installed in more than 10 million devices and is running on more than 10,000 networks worldwide. It operates on the world's largest IPv6 and VoIP networks and in all major service provider networks worldwide.

The next steps...

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