

## Thuyết minh thông số kỹ thuật Switch L2 Cisco WS-C2960X-48FPS-L

|   |   |
|---|---|
| Performance & Bandwidth thông số Switch - managed - 48 10/100/1000 Gigabit Ethernet ports PoE 740W, 4 1G SFP uplink ports |   |
| Mã  | WS-C2960X-48FPS-L   |
| Device Type   | Switch - 48 ports - managed - stackable   |
| Enclosure Type  | Desktop, rack-mountable 1U  |
| Subtype   | Gigabit Ethernet  |
| Ports   | 48 x 10/100/1000 (PoE+) + 4 x Gigabit SFP   |
| Power Over Ethernet (PoE)   | PoE+  |
| PoE Budget  | 740 W   |
| Performance   | Switching capacity: 216 Gbps   Forwarding performance (64-byte packet size): 107.1 Mpps   |
| Capacity  | Virtual interfaces (VLANs): 1023  |
| Jumbo Frame Support   | 9216 bytes  |
| Max Units In A Stack  | 8   |
| Remote Management Protocol  | SNMP 1, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, SNMP 2c, HTTP, TFTP, SSH, CLI   |
| Authentication Method   | Kerberos, Secure Shell (SSH), RADIUS, TACACS+   |
| Features  | Layer 2 switching, DHCP support, power over Ethernet (PoE), auto-negotiation, ARP support, VLAN support, auto-uplink (auto MDI/MDI-X), IGMP snooping, Intrusion Detection System (IDS), IPv6 support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Dynamic Trunking Protocol (DTP) support, Port Aggregation Protocol (PAgP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, RADIUS support, SSH support, Jumbo Frames support, MLD snooping, Dynamic ARP Inspection (DAI), PoE+, Cisco EnergyWise technology, Unicast Reverse Path Forwarding (URPF), Uni-Directional Link Detection (UDLD), Rapid Per-VLAN Spanning Tree Plus (PVRST+), IPv4 support, Shaped Round Robin (SRR), Link Aggregation Control Protocol (LACP), MAC Address Notification, Remote Switch Port Analyzer (RSPAN), NetFlow, Hot Standby Router Protocol (HSRP) support, Energy Efficient Ethernet, Multicast VLAN Registration (MVR), Class of Service (CoS), Cisco FlexStack Plus |
| Compliant Standards   | IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.3ae, IEEE 802.1s, IEEE 802.1ae, IEEE 802.1ab (LLDP), IEEE 802.3at, IEEE 802.3az, IEEE 802.1AX   |
| Processor   | : 600 MHz   |
| RAM   | 512 MB  |
| Flash Memory  | 128 MB  |
| Status Indicators   | Port status, port transmission speed, port duplex mode, system, RPS (Redundant Power Supply), PoE, link/activity  |
| Expansion / Connectivity  |   |
| Interfaces  | 48 x 1000Base-T 10Base-T/100Base-TX/1000Base-T - RJ-45 - RJ-45 PoE+ - 30 W   1 x console console - RJ-45 - RJ-45   1 x mini-USB console - mini-USB Type B - Type B management   2 x USB Type A   1 x 1000Base-TX 10Base-T/100Base-TX - RJ-45 - RJ-45 management   4 x SFP (mini-GBIC) - SFP uplink  |
| Expansion Slots   | 1 (total) / 1 (free) x Stacking Module slot   |
| Manufacturer Warranty   |   |
| Service & Support   | Limited warranty - advance parts replacement - lifetime - response time: next business day   Technical support - consulting - 90 days   |
| Miscellaneous   |   |
| MTBF  | 232,610 hours   |
| Compliant Standards   | CISPR 22 Class A, BSMI CNS 13438 Class A, CISPR 24, EN 61000-3-2, EN 61000-3-3, EN55024, EN55022 Class A, AS/NZS 60950-1, ICES-003 Class A, RoHS, FCC CFR47 Part 15, UL 60950-1 Second Edition, CSA C22.2 No. 60950-1 Second Edition, EN 60950-1 Second Edition, IEC 60950-1 Second Edition, Directive 2011/65/EU, VCCI Class A, KN24, KN22 Class A, EN 300386  |
| Power   |   |
| Power Device  | Internal power supply   |
| Power Redundancy  | Optional  |
| Voltage Required  | AC 120/230 V (50/60 Hz)   |
| Features  | Redundant Power System (RPS) connector  |
| Software / System Requirements  |   |

|                           |                           |
|---------------------------|---------------------------|
| Software Included         | Cisco IOS LAN Base        |
| Environmental Parameters  |                           |
| Min Operating Temperature | 23 °F                     |
| Max Operating Temperature | 113 °F                    |
| Humidity Range Operating  | 10 - 95% (non-condensing) |
| Min Storage Temperature   | -13 °F                    |
| Max Storage Temperature   | 158 °F                    |
| Humidity Range Storage    | 10 - 95% (non-condensing) |
| Dimensions & Weight       |                           |
| Width                     | 17.5 in                   |
| Depth                     | 14.5 in                   |
| Height                    | 1.8 in                    |
| Weight                    | 12.79 lbs                 |