### WS-C3560X-24T-S Datasheet





## Overview

Cisco Catalyst WS-C3560X-24T-S is 24 Gigabit Ethernet ports standalone switch with no stacking option in IP base feature set. Four optional network modules and license-base software feature offer flexibility, scalability and feature extensibility in order to reduce the cost of development of business needs. IP base feature set provide up to 1005-Vlans and basic layer 3 routing features, advanced security features and management features. WS-C3560X-24T-S is designed for enterprise access/aggregation layer switching; however, customers can transparently upgrade the software feature to by purchasing IP services license to activity advanced layer 3 capability to fully support BGP, EIGRP, OSFP routing. WS-C3560X-24T-S switch comes with one default power supply module, customers can purchase additional power supply module insert into power supply bay 2 in order to power redundancy.

#### WS-C3560X-24T-S

WS-C3560X-24T-S overview

Cisco Catalyst 3560-X Series Switch

24 \* 10/100/1000 Ethernet ports

Four optional uplink network modules with GE or 10GE ports

Dual redundant, modular power supplies and fans

Baseline Layer 3 routing features

Media Access Control Security (MACsec) hardware-based encryption

Flexible NetFlow and switch-to-switch hardware encryption with the Service Module uplink

USB Type-A and Type-B ports for storage and console respectively and an out-of-band Ethernet management port

F4	

Figure 1

Cisco Catalyst 3560-X Series Switches support 4 optional network modules for uplink ports (Figure 1);

The default switch configuration doesn't include the uplink module;

When purchasing switch, customers have flexibility to choose any group of network modules described below:

Product Number	Product Description	
C3KX-NM-1G	Four GbE port network module	
C3KX-NM-10G  Two 10GbE SFP+ ports network module with four physical ports with two SFP+ and two regular SFP ports		

C3KX-NM-10GT	OGT Two 10GB-T ports network module	
C3KX-SM-10G	Service Module with two 10GbE SFP+ ports network module for Netflow and MACsec encryption	
WS C2560V 24T S book		

WS-C3560X-24T-S back

Figure 2

#### **Dual Redundant Modular Power Supplies**

Cisco Catalyst 3750-X Series and 3560-X Series Switches support dual redundant power supplies (Figure 2);

One power supply is shipped with the switch by default;

Other power supply/suppliers can be purchased when ordering the switch or next time according to your needs.

If only one power supply is installed, it should always be in the power supply bay 1.

Table below shows the different power supplies available in these switches and available PoE power.

Power Supply Models

Models	Default Power Supply	Available PoE Power
24 Port Data Switch	C3KX-PWR-350WAC	-
48 Port Data Switch		
24 Port PoE Switch	C3KX-PWR-715WAC	435W
48 Port PoE Switch		
48 Port Full PoE Switch	C3KX-PWR-1100WAC	800W
24 Port UPOE Switch	C3KX-PWR-1100WAC	800W
48 Port UPOE Switch		

# Specification

Manufacturer   Macadestreer   Maca	Manufacturer Part Number  WS-C3560X-24T-S  Product Type Switch - 24 ports - L3 - Managed  Form Factor Rack mountable - 1U  Switch Ports 24 x 10/100/1000 Ethernet Ports  Performance Switching capacity : 160 Gbps  Routing RIP-1 RIP-2 HSRP static IP routing RIPng	
Product Type Product Type Product Type Product Type Profunct Prom Factor Rack mountable - 1U Switch - 24 pots - 1.3 - Managed Performance Performance Protococl Routing Routin	Part Number  WS-C3560X-241-S  Product Type	
Form Factor  Rack mountable - 1U  Switch Ports  Ze x 101001000 Elimenal Ports  Performance  Switching capacity : 160 Glaps  Renoting Protocol  RP-1, RIP-2, HSRP, static IP routing, RIPng  Remote  Remote  Remote  SNNP 1, SNMP 2, RMON 1, RMON 2, RMON 3, RMON 9, Teinet, SNMP 3, SNMP 2c, TFTP, SSH, CLI  Authentication  Kerboros, Secure Shedl (SSHs), RADIUS, TACACS-  Mithentice  Hot ewap module replacement, Layer 3 switching, Layer 2 switching, dynamic IP address assignment , DHCP support, suito-negotiation, ARP support, studies, VAM support, auth-uplink, duto MUINDH-XI, KUMP ancopons, Syriog support, transfer staping, Broadcast Shorn Control, High support, ALD ancoponing, Dynamic ARP insport, Port Aggregation Protocol (PTP) support, RDP ancoponing Dynamic ARP insport Access Control List (ACI) support, Classify of Service (DoS), Jumbo Afraires assignment (PST) support, DPP ancoponing Dynamic ARP insport (PST) support (PST) support, DPP ancoponing Dynamic ARP insport (PST) support (PST) suppor	Form Factor Rack mountable - 1U  Switch Ports 24 x 10/100/1000 Ethernet Ports  Performance Switching capacity : 160 Gbps  Routing RIP-1 RIP-2 HSRP static IP routing RIPng	
Switch Ports	Switch Ports 24 x 10/100/1000 Ethernet Ports  Performance Switching capacity: 160 Gbps  Routing BIP-1 BIP-2 HSBP static IP routing BIPng	
Renoting	Performance Switching capacity: 160 Gbps  Routing BIP-1 BIP-2 HSBP static IP routing BIPng	
Remote R	Routing  RIP-1 RIP-2 HSRP static IP routing RIPng	
Remote   RisP1, RisP2, RisP3, Static In Footing, RisP19	RIP-1 RIP-2 HSRP static IP rollting RIPng	
Management Protocol         SMMP 1, SNMP 2, RMON 1, RMON 2, RMON 9, Telnet, SNMP 3, SNMP 2d, TFTP, SSH, CLI           Protocol         Kerberos, Secure Shell (SSH), RADIUS, TACACS+           Resulted         Hot swap module replacement, Layer 3 switching, Layer 2 switching, dynamic IP address assignment, DHCP support, auto-negotiation, ARP support, truthing, VLAN support, auto-plink (auto MD/MDL/S), IGMP protoping, Systep support, truthing, Protocol (DF) support, Port Aggregation Protocol (PAP) support, Access Control Laj (ACI) support, Duality of Service (CQS), Juntoe Framer support, MLD snopping, Dynamic ARP support, Access Control Laj (ACI) support, Caulity of Service (CQS), Juntoe Framer support, MLD snopping, Dynamic ARP support, Access Control Laj (ACI) support, Del Service (CQS), Juntoe Framer support, MLD snopping, Dynamic ARP support, Access Control Laj (ACI) support, Del Service (CQS), Juntoe Framer support, MLD snopping, Dynamic ARP support, Access Control Laj (ACI) support, Del Service (CQS), Juntoe Framer support, MLD snopping, Dynamic ARP support, Dynamic Arms Support, MLD snopping, Dynamic ARP support, Dynamic ARP support, Dynamic Arms Support, MLD snopping, Dynamic ARP support, Dynamic Arms Support, MLD snopping, Dynamic ARP support, Dynamic Arms Support, MLD snopping, Dynamic ARP support, Dynam		
Rerberos, Secure Shell (SSH), RADIUS, TACACS+   Retures   Hot swap module replacement, Layer 3 switching, Layer 2 switching, dynamic IP address assignment, DHCP support, auto-negotiation, ARP support, turnking, VLAN support, auto-uplink (auto MDI/MDIX), IGMP snooping, Syslog support, tarthis chaping, Broadcast Storm Corntol, High Spanning Tree Protocol (PRFT) support, DHCP snooping, Dynamic Turnking, VLAN support, Auto-uplink (auto MDI/MDIX), IGMP snooping, Syslog support, tarthis chaping, Broadcast Storm Corntol, High Spanning Tree Piloto (IRSTP) support, DHCP snooping, Dynamic Mark Pilospecting (OHA), PervLANA Spanning Tree Pilot (PRFT), EIGRET Stub Routing	Management SNMP 1, SNMP 2, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, SNMP 2c, TFTP, SSH, CLI	
Seatures   Availability, Mullicast Storm Control, High Availability, Mullicast Storm Control, High Availability, Mullicast Storm Control, Unicast Storm Contro	Kerheros Secure Shell (SSH) RADILIS TACACS+	
Standards 80.2.1w, IEEE 802.1x, IEEE 802.1ae  PRAM Memory 54 MB Flash  Status Indicators Port status, link activity, port transmission speed, port duplex mode, power, system  Connectivity SUSB : 1 x 4 PIN USB Type A 1 x 0 nsole - min-USB Type B - management 1 x 1 x 108 ase-T/100Base-TX - FU-45 - management 1 x 1 x 108 ase-T/100Base-TX - FU-45 - management 1 x 1 x 108 ase-T/100Base-TX - FU-45 - management 1 x 1 x 108 ase-T/100Base-TX - FU-45 - management 1 x 1 x 108 ase-T/100Base-TX - FU-45 - management 1 x 1 (lotal) / 1 (free) x Expansion Slot  Power Supply  Power Device Power supply - redundant - plug-in module  Installed Qty 1 (installed) / 2 (max)  Power Redundancy Cptional  Power Redundancy Scheme AC 120/230 V ( 50/60 Hz )  Features Redundant Power System (RPS) connector	support, trunking, VLAN support, auto-uplink (auto MDI/MDI-X), IGMP snooping, Syslog support, traffic shaping, Broadcast Storm Co Availability, Multicast Storm Control, Unicast Storm Control, Rapid Spanning Tree Protocol (RSTP) support, DHCP snooping, Dyna Protocol (DTP) support, Port Aggregation Protocol (PAgP) support, Access Control List (ACL) support, Quality of Service (QoS), Ju	Control, High mic Trunking
Flash Memory   64 MB Flash		CP), IEEE
Status Indicators  Port status, link activity, port transmission speed, port duplex mode, power, system  Connectivity Status Interfaces  Interfaces  24 x 108ase-T/1008ase-T-RJ-45 USB: 1 x 4 PIN USB Type A 1 x console - mini-USB Type B - management 1 x 108ase-T/1008ase-TX - RJ-45 - management 1 x 108ase-TX-RJ-45 - management 1 x 108ase	256 MB	
Port status, link activity, port transmission speed, port duplex mode, power, system	Flash Memory 64 MB Flash	
24 x 10Base-T/100Base-TX/100Base-T - RJ-45 USB : 1 x 4 PIN USB Type A 1 x console - mini-USB Type B - management 1 x RS-232 - RJ-45 - management 1 x 10Base-T/100Base-TX - RJ-45 - management 1 x 10Base-T/100Base-T/100Base-TX - RJ-45 - management 1 x 10Base-T/100Base-TX - RJ-45 - management 1 x 10Base-T/10Dase-TX - RJ-45 - management 1 x 10Base-T/10Dase-TX - RJ-45 - management 1 x 10Base-TX - RJ-45 - management 1	Port status, link activity, nort transmission speed, nort duplex mode, nower, system	
USB: 1 x 4 PIN USB Type A	Connectivity Slots	
Slot(s) 1 (total) / 1 (tree) x Expansion Slot  Power Supply  Power Device Power supply - redundant - plug-in module  Installed Qty 1 (installed) / 2 (max)  Power Redundancy Optional  Power Redundancy Scheme 1+1 (with optional power supply)  Voltage Required AC 120/230 V (50/60 Hz )  Features Redundant Power System (RPS) connector	USB: 1 x 4 PIN USB Type A Interfaces 1 x console - mini-USB Type B - management 1 x RS-232 - RJ-45 - management	
Power Device Power supply - redundant - plug-in module  Installed Qty 1 (installed) / 2 (max)  Power Redundancy Optional  Power Redundancy Scheme 1+1 (with optional power supply)  Voltage Required AC 120/230 V (50/60 Hz )  Features Redundant Power System (RPS) connector	· 1 (fotal) / 1 (free) x Expansion Slot	
Installed Qty 1 (installed) / 2 (max)  Power Redundancy Scheme 1+1 (with optional power supply)  Voltage Required AC 120/230 V ( 50/60 Hz )  Features Redundant Power System (RPS) connector	Power Supply	
Power Redundancy Scheme     Optional       Voltage Required Redundant Power System (RPS) connector	Power Device Power supply - redundant - plug-in module	
Power Redundancy Scheme 1+1 (with optional power supply)  Voltage Required AC 120/230 V ( 50/60 Hz )  Features Redundant Power System (RPS) connector	Installed Qty 1 (installed) / 2 (max)	
Redundancy Scheme  1+1 (with optional power supply)  Voltage Required  AC 120/230 V (50/60 Hz)  Features  Redundant Power System (RPS) connector	Ontional	
Required AC 120/230 V (50/60 Hz)  Features Redundant Power System (RPS) connector	Redundancy 1+1 (with optional power supply)	
	Δ(: 120/230 V / 50/60 HZ )	
Dimensions / Weight / Miscellaneous	Features Redundant Power System (RPS) connector	
	Dimensions / Weight / Miscellaneous	
<b>Width</b> 44.5 cm	Width 44.5 cm	

Depth	46 cm	
Height	4.5 cm	
Weight	7 kg	
Rack Mounting Kit	Optional	
MTBF	208,218 hour(s)	
Compliant Standards	CE, TUV GS, CISPR 22 Class A, GOST, cUL, NOM, VCCI Class A ITE, EN55022 Class A, CB, AS/NZS 60950-1, AS/NZ 3548 Class A, CCC, RoHS, UL 60950-1, IEC 60950-1, EN 60950-1, KCC, FCC Part 15 A, CSA C22.2 No. 60950-1	
System Softwa	System Software	
Software Included	Cisco IOS IP Base	

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