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## Overview

### WS-C3750X-48PF-S Cisco Catalyst 3750-X Series Switch

- Stackable 48 10/100/1000 Ethernet Full PoE ports
- Four optional uplink network modules with GE or 10GE ports
- Industry first PoE+ with 30W power on all ports in 1 rack unit (RU) form factor
- Dual redundant, modular power supplies and fans
- 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
- StackWise Plus
- Cisco StackPower™ technology: An innovative feature and industry first for sharing power among stack members
- Cisco StackWise Plus technology for ease of use and resiliency with 64 Gbps of throughput
- Investment protection with backward compatibility with all other models of Cisco Catalyst 3750 Series Switches

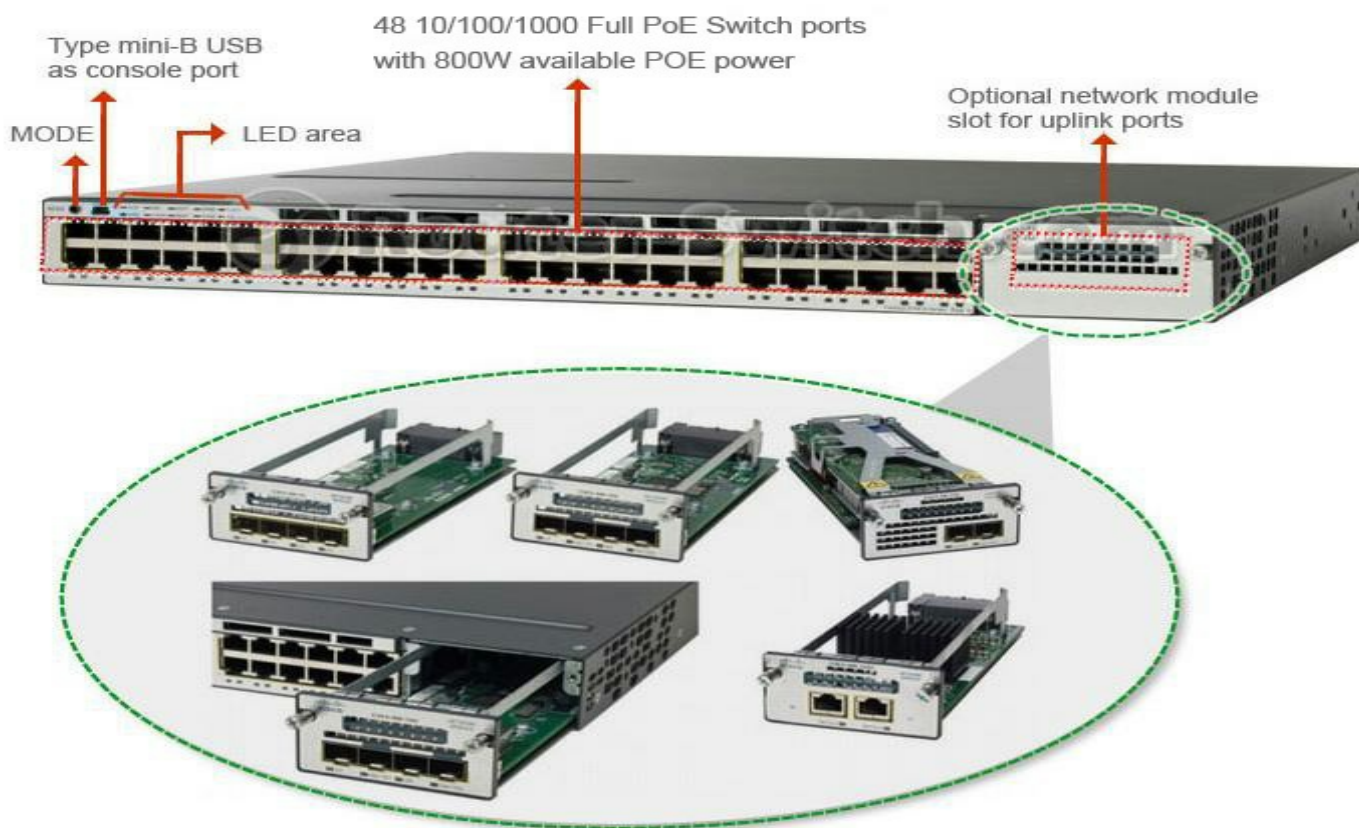


Figure 1

Cisco Catalyst 3750-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	Two 10GB-T ports network module

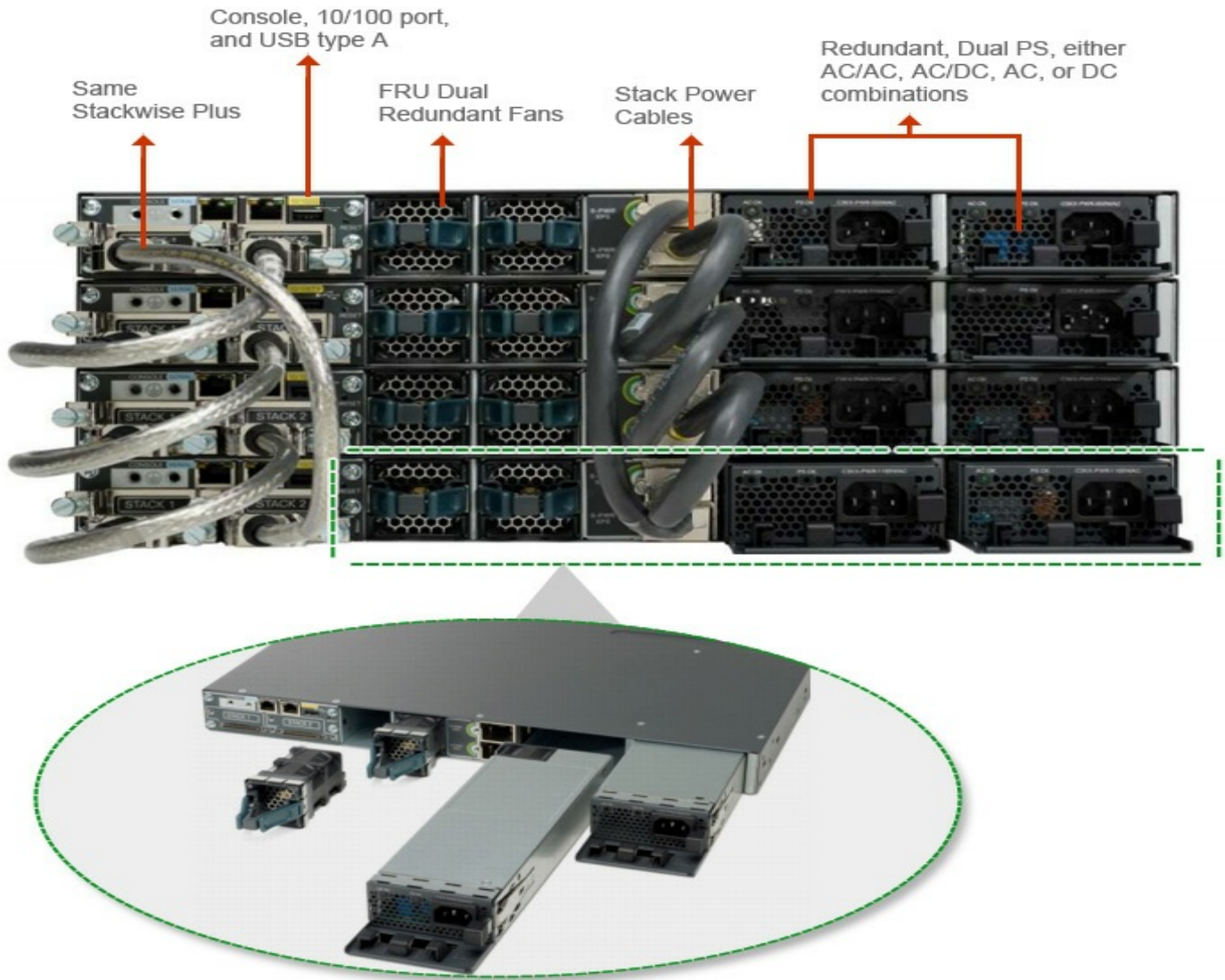


Figure 2

### 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		

Besides the above power supplies, a 440W DC power supply is available as a spare (should be ordered separately) on all switch models; The DC power supply also delivers PoE capabilities for maximum flexibility, (please refer to table 7 for available PoE for different configurations); Customers can mix and match the AC and DC power supplies in the two available power supply slots. Any of these power supplies can be installed in any of the switches.

Available PoE with DC power supply

Model	# of 440W DC PS	Total Available PoE Budget
24-Port PoE Switch	1	220W
	2	660W
48-Port PoE Switch	1	185W
	2	625W
UPOE (60W per port)	One C3KX-PWR-715WAC and one C3KX-PWR-1100WAC or Two C3KX-PWR-1100WAC	One C3KX-PWR-715WAC and one C3KX-PWR-1100WAC or Two C3KX-PWR-1100WAC

Cisco Catalyst 3750-X Series Switch WS-C3750X-48PF-S is an enterprise-class lines of stackable and standalone switches, respectively. Catalyst 3750-X switches provide high availability, scalability, security, energy efficiency, and ease of operation with innovative features such as Cisco StackPower, IEEE 802.3at Power over Ethernet Plus (PoE+) configurations, optional network modules, redundant power supplies, and Media Access Control Security (MACsec) features. Cisco Catalyst 3750-X Series with StackWise Plus technology provides scalability, ease of management and investment protection for the evolving business needs. The Cisco Catalyst 3750-X switches enhance productivity by enabling applications such as IP telephony, wireless, and video for borderless network experience.

## Specification

WS-C3750X-48PF-S data sheet	
<b>Manufacturer</b>	Cisco Systems, Inc
<b>Manufacturer Part Number</b>	WS-C3750X-48PF-S
<b>Product Type</b>	Managed, Stackable 48 ports L3 Switch
<b>Form Factor</b>	Fixed, Rack Mountable 1U, Stackable/Clustering
<b>Switch Port density - Uplinks</b>	48 x 10/100/1000 Ethernet Ports
<b>Power Over Ethernet (PoE)</b>	Yes
<b>Max Number of Stacks</b>	9
<b>Routing Protocol</b>	RIP-1, RIP-2, HSRP, static IP routing, RIPng
<b>Remote Management Protocol</b>	SNMP 1, SNMP 2, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, SNMP 2c, TFTP, SSH, CLI
<b>Authentication Method</b>	Kerberos, Secure Shell (SSH), RADIUS, TACACS+
<b>Features</b>	Hot swap module replacement, Layer 3 switching, Layer 2 switching, dynamic IP address assignment , DHCP support, power over Ethernet (PoE), auto-negotiation, ARP support, trunking, VLAN support, auto-uplink (auto MDI/MDI-X), IGMP snooping, Syslog support, traffic shaping, Broadcast Storm Control, High Availability, Multicast Storm Control, Unicast Storm Control, Rapid Spanning Tree Protocol (RSTP) support, DHCP snooping, Dynamic Trunking Protocol (DTP) support, Port Aggregation Protocol (PAgP) support, Access Control List (ACL) support, Quality of Service (QoS), Jumbo Frames support, MLD snooping, Dynamic ARP Inspection (DAI), PoE+, Per-VLAN Spanning Tree Plus (PVST+), EIGRP Stub Routing
<b>Compliant Standards</b>	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 802.1s, IEEE 802.1ae, IEEE 802.3at

<b>DRAM Memory</b>	256 MB
<b>Flash Memory</b>	128 MB Flash
<b>LED Status Lights Indicators</b>	Port status, link activity, port transmission speed, port duplex mode, power, system
<b>Connectivity / Expansion Slots</b>	
<b>Interfaces</b>	48 x 10Base-T/100Base-TX/1000Base-T - RJ-45 - PoE 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 Network stack device : 2 x
<b>Expansion Slot(s)</b>	1 (total) / 1 (free) x Expansion Slot
<b>Power Supply Specifications</b>	
<b>Power Device</b>	Power supply - redundant - plug-in module
<b>Installed Qty</b>	1 (installed) / 2 (max)
<b>Power Redundancy</b>	Optional
<b>Power Redundancy Scheme</b>	1+1 (with optional power supply)
<b>Voltage Required</b>	AC 120/230 V ( 50/60 Hz )
<b>Features</b>	Redundant Power System (RPS) connector
<b>Dimensions / Weight / Miscellaneous</b>	
<b>Width</b>	44.5 cm
<b>Depth</b>	49.5 cm
<b>Height</b>	4.5 cm
<b>Weight</b>	7.6 kg
<b>Rack Mounting Kit</b>	Optional
<b>MTBF</b>	139,913 hour(s)
<b>Compliant Standards</b>	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
<b>System Software</b>	
<b>Software Included</b>	Cisco IOS IP Base
<b>Manufacturer Warranty</b>	
<b>Service &amp; Support</b>	Limited lifetime warranty
<b>Service &amp; Support Details</b>	Limited warranty - lifetime Limited warranty - power supply and fans - 5 years New releases update

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