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Overview

WS-C3850-12X48U-L switch provides 48 x 10/100/1000 with 12 100Mbps/1/2.5/5/10 Gbps UPOE Ethernet ports. It is built in wireless controller provide fully convergence between wired and wireless on a single platform.

Quick Specs

Table 1 shows the Quick Specs.

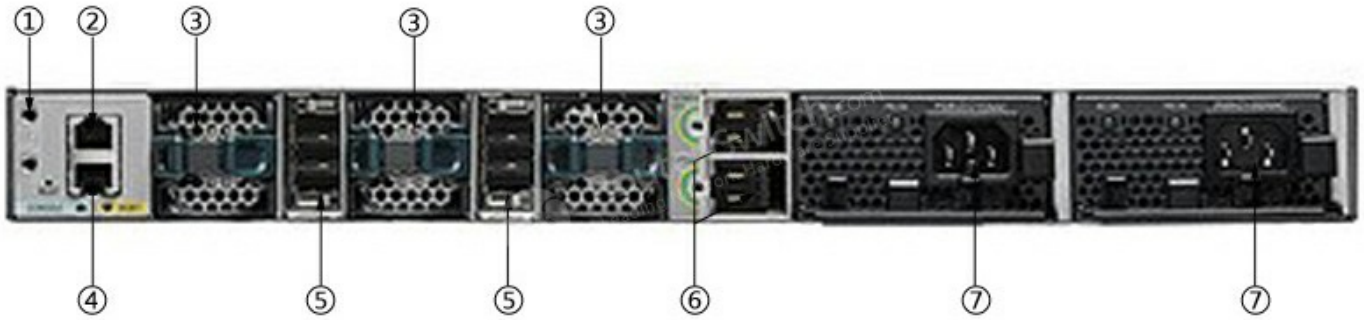
Product Code	WS-C3850-12X48U-L
Enclosure Type	1 RU
Feature Set	LAN Base
Ports	48 x 10/100/1000 with 12 100Mbps/1/2.5/5/10 Gbps UPOE Ethernet ports
Network SFP uplink module selection	C3850-NM-4-1G, C3850-NM-2-10G, C3850-NM-4-10G, C3850-NM-8-10G, C3850-NM-2-40G
Maximum stacking number	9
Stack bandwidth	480 Gbps
Switching Capacity	472 Gbps
RAM	4 GB
Flash Memory	2 GB
Dimensions	4.45 x 44.5 x 48.8 cm

Product Details

Figure 1 shows the appearance of the Cisco Catalyst WS-C3850-12X48U-L.



Figure 2 shows the back panel of the WS-C3850-12X48U-L switch.



Note

(1)	Ground connector	(5)	StackWise port connector
(2)	CONSOLE (RJ-45 console port)	(6)	StackPower connector
(3)	Fan module	(7)	Power supply modules
(4)	MGMT port		

Figure 3 shows the StackWise-480 and StackPower connectors.

IP base feature set can only stack with other Catalyst 3850 Series IP base switches. Power stack capacity is supported by Cisco Stackpower technology to provide power redundancy among stacking members.



The Modules

Table 2 shows the Network SFP uplink module selection of WS-C3850-12X48U-L.

Network SFP uplink module	Description
C3850-NM-4-1G	Cisco 3850 Series Network Module C3850-NM-4-1G 4 x 1GE Network Module
C3850-NM-2-10G	Cisco 3850 Series Network Module C3850-NM-2-10G 2 x 10GE Network Module
C3850-NM-4-10G	Cisco 3850 Series Network Module C3850-NM-4-10G 4 x 10GE Network Module
C3850-NM-8-10G	Cisco 3850 Series Network Module C3850-NM-8-10G 8 x 10GE Network Module
C3850-NM-2-40G	Cisco Catalyst 3850 2 x 40GE Network Module

Compare to Similar Items

Table 3 shows the comparison between WS-C3850-12XS-S and WS-C3850-12X48U-L.

Models	WS-C3850-12XS-S	WS-C3850-12X48U-L
Feature Set	IP Base	LAN Base
Ports	12 ports of 10G SFP+ Ethernet fiber connection with Flexible Netflow feature	48 x 10/100/1000 with 12 100Mbps/1/2.5/5/10 Gbps UPOE Ethernet ports
Network SFP uplink module selection	C3850-NM-4-10G	C3850-NM-4-1G, C3850-NM-2-10G, C3850-NM-4-10G, C3850-NM-8-10G, C3850-NM-2-40G

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Do you have any question about the WS-C3850-12X48U-L?

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Specification

WS-C3850-12X48U-L Specification	
model info:	WS-C3850-12X48U-L
enclosure type	Rack-mountable - 1U
Ports	48 x 10/100/1000 with 12 100Mbps/1/2.5/5/10 Gbps UPOE Ethernet ports
Network management Interface	<ul style="list-style-type: none"> ● Ethernet management port: RJ-45 connectors, 4-pair Cat-5 UTP cabling ● Management console port: RJ-45-to-DB9 cable for PC connections
Available PoE Power	None
Switching Capacity	472 Gbps
Maximum stacking number	9
Stack Bandwidth	480Gbps
Maximum VLANs IDs	1,000
MAC Address Table Size	32K
CPU	Multicore CPU
RAM	4 GB
Flash Memory	2 GB
Wireless	
Number of AP per switch/stack	100
Number of wireless clients per switch/stack	2000
Total number of WLANs per switch	64
Wireless bandwidth per switch	Up to 40 Gbps
Supported Aironet AP series	3600, 3500, 2600, 1600, 1260, 1140, 1040

Expansion / Connectivity	
Console ports	USB (Type-B), Ethernet (RJ-45)
Expansion Slot(s)	1 network module slot and 1 power redundant slot
Network Modules Selection	C3850-NM-4-1G, C3850-NM-2-10G, C3850-NM-4-10G, C3850-NM-8-10G, C3850-NM-2-40G
Stacking cable	<ul style="list-style-type: none"> ●STACK-T1-50CM StackWise stacking cable with a 0.5 m length ●STACK-T1-1M StackWise stacking cable with a 1.0 m length ●STACK-T1-3M StackWise stacking cable with a 3.0 m length
Stack Power Cable (recommended)	<ul style="list-style-type: none"> ●CAB-SPWR-30CM stack power cable with a 30CM length ●CAB-SPWR-150CM stack power cable with a 150CM length
Power supply	PWR-C1-1100WAC
Available PoE power	630W
Power Device	Power supply - redundant - plug-in module
Power Redundancy	optional
Miscellaneous	
Dimension	4.45 x 44.5 x 48.8 cm (1.75 x 17.5 x 19.2 inch)
Weight	8.0 kg
Rack Mounting Kit	optional
MTBF in hours	202,030
Compliant Standards	<ul style="list-style-type: none"> ● IEEE 802.1D Spanning Tree Protoco ● IEEE 802.1p CoS Prioritization ● IEEE 802.1Q VLAN ● IEEE 802.1s ● IEEE 802.1w ● IEEE 802.1X ● IEEE 802.1X-Rev ● IEEE 802.11 ● IEEE 802.1ab (LLDP) ● IEEE 802.3ad ● IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports ● IEEE 802.3 10BASE-T ● IEEE 802.3u 100BASE-TX ● IEEE 802.3ab 1000BASE-T ● IEEE 802.3z 1000BASE-X ● RMON I and II standards ● SNMP v1, v2c, and v3
System software / license	
System software	IOS IP Base (Upgradable)
EnergyWise license	ENERGY-MGMT, ENERGY-MGT-100-K9
Features	<ul style="list-style-type: none"> ●RPS Support ● Jumbo Frames ● VLANS ●Voice Vlan ●VTPv2 ●CDPv2 ●LLDP ● 802.3ad LACP and PAgP ● PVST/PVST+ ● 802.1W/802.1S ●Port Fast/Uplink Fast ●Dynamic Trunking Protocol (DTP) ● port CoS Trust and Override ● Trusted Boundary ● ACL Classification ●Ingress Policing ● Auto QoS ● Per VLAN policies ● 802.1p queues ● Scheduling ● Priority Queuing ● Configure CoS Priority Queues ●Configure CoS Priority Queues ● Configure Queue Weights ● Configure Buffers and Thresholds ●Class & Policy Maps ● Modify CoS and DSCP Mapping ● Weighted Tail Drop ● IGMPv1,v2,v3 and MLDv1, v2 ● DHCP server ● DSCP transparency ● HSRP, VRRP, BGP ● RIPv1, v2 EIGRP, PIM OSPF, OSPFv3, EIGRPv6, BGPv4, IS-ISv4 ● VRF-lite ● PIM-SM/DM, PIM sparse-dense mode, SSM ● Flexible Netflow

Advanced Network security	<ul style="list-style-type: none"> ● Port security ● DHCP snooping ● Dynamic ARP inspection (DAI) ● IP source guard ● The Unicast Reverse Path Forwarding (uRPF) ● Bidirectional data support on a SPAN ● User authentication ● Private VLAN ● Router and VLAN ACLs ● complete identity and security ● Multidomain authentication ● MAC address notification ● IGMP filtering ● Cisco security VLAN ACL ● Secure Shell (SSH) Protocol, Kerberos, and Simple Network Management Protocol Version 3 (SNMPv3) ● Port-based ACLs ● TrustSec SXP ● IEEE 802.1ae ● TACACS+ and RADIUS authentication ● Cisco standard and extended IP security router ACLs ● Bridge protocol data unit (BPDU) Guard ● Spanning Tree Root Guard (STRG) ● Wireless end-to-end security
Management	<ul style="list-style-type: none"> ● BRIDGE-MIB ● CISCO-AUTH-FRAMEWORK-MIB ● CISCO-BGP4-MIB, BGP4-MIB ● CISCO-BRIDGE-EXT-MIB ● CISCO-BULK-FILE-MIB ● CISCO-CABLE-DIAG-MIB ● CISCO-CALLHOME-MIB ● CISCO-CEF-MIB ● CISCO-CIRCUIT-INTERFACE-MIB ● CISCO-ENTITY-VENDORTYPE-OID-MIB ● CISCO-CONTEXT-MAPPING-MIB ● CISCO-DEVICE-LOCATION-MIB ● CISCO-DHCP-SNOOPING-MIB ● CISCO-EIGRP-MIB ● CISCO-EMBEDDED-EVENT-MGR-MIB ● CISCO-ENTITY-FRU-CONTROL-MIB ● CISCO-ENTITY-SENSOR-MIB ● ENTITY-MIB ● CISCO-ERR-DISABLE-MIB ● CISCO-CONFIG-COPY-MIB ● CISCO-FLOW-MONITOR-MIB ● CISCO-FTP-CLIENT-MIB ● CISCO-HSRP-EXT-MIB ● CISCO-HSRP-MIB ● CISCO-IETF-ISIS-MIB ● CISCO-IF-EXTENSION-MIB ● CISCO-IGMP-FILTER-MIB ● CISCO-CONFIG-MAN-MIB ● CISCO-IP-CBR-METRICS-MIB ● CISCO-IPROUTE-MIB ● CISCO-IP-STAT-MIB ● CISCO-IP-URPF-MIB ● CISCO-L2L3-INTERFACE-CONFIG-MIB ● CISCO-LAG-MIB ● CISCO-LICENSE-MGMT-MIB ● CISCO-MAC-AUTH-BYPASS-MIB ● CISCO-MAC-NOTIFICATION-MIB ● CISCO-MDI-METRICS-MIB ● CISCO-FLASH-MIB ● CISCO-OSPF-MIB ● CISCO-OSPF-TRAP-MIB ● CISCO-PAE-MIB ● CISCO-PAGP-MIB ● CISCO-PIM-MIB ● CISCO-PING-MIB ● CISCO-PORT-QOS-MIB ● CISCO-PORT-SECURITY-MIB ● CISCO-PORT-STORM-CONTROL-MIB ● CISCO-POWER-ETHERNET-EXT-MIB ● CISCO-PRIVATE-VLAN-MIB ● CISCO-PROCESS-MIB ● CISCO-PRODUCTS-MIB ● CISCO-RF-MIB ● CISCO-RTP-METRICS-MIB ● CISCO-RTTMON-MIB ● CISCO-SMART-INSTALL-MIB ● CISCO-SNMP-TARGET-EXT-MIB ● CISCO-STACKMAKER-MIB ● CISCO-MEMORY-POOL-MIB ● CISCO-STP-EXTENSIONS-MIB ● CISCO-SYSLOG-MIB ● CISCO-TCP-MIB ● CISCO-UDLD-MIB ● CISCO-VLAN-IPTABLE-RELATIONSHIP-MIB ● CISCO-VLAN-MEMBERSHIP-MIB ● CISCO-VTP-MIB ● EtherLike-MIB ● HC-RMON-MIB ● IEEE8021-PAE-MIB ● IEEE8023-LAG-MIB ● IF-MIB ● IGMP-MIB ● IGMP-STD-MIB ● IP-FORWARD-MIB ● IP-MIB ● IPROUTE-STD-MIB ● LLDP-EXT-MED-MIB ● LLDP-MIB ● NOTIFICATION-LOG-MIB ● OLD-CISCO-MEMORY-MIB ● CISCO-CDP-MIB ● POWER-ETHERNET-MIB ● RMON2-MIB ● RMON-MIB ● SNMP-COMMUNITY-MIB ● SNMP-FRAMEWORK-MIB ● SNMP-MPD-MIB ● SNMP-NOTIFICATION-MIB ● SNMP-PROXY-MIB ● SNMP-TARGET-MIB ● SNMP-USM-MIB ● SNMPv2-MIB ● SNMP-VIEW-BASED-ACM-MIB ● TCP-MIB ● UDP-MIB ● CISCO-IMAGE-MIB ● CISCO-STACKWISE-MIB ● AIRESMACE-WIRELESS-MIB ● CISCO-LWAPP-IDS-MIB ● CISCO-LWAPP-AP-MIB ● CISCO-LWAPP-CCX-RM-MIB ● CISCO-LWAPP-CLIENT-ROAMING-MIB ● CISCO-LWAPP-DOT11-CCX-CLIENT-DIAG-MIB ● CISCO-LWAPP-DOT11-CCX-CLIENT-MIB ● CISCO-LWAPP-DOT11-CLIENT-CCX-REPORTS-MIB ● CISCO-LWAPP-DOT11-CLIENT-MIB ● CISCO-LWAPP-DOT11-MIB ● CISCO-LWAPP-DOWNLOAD-MIB ● CISCO-LWAPP-LINKTEST-MIB ● CISCO-LWAPP-MFP-MIB ● CISCO-LWAPP-MOBILITY-EXT-MIB ● CISCO-LWAPP-QOS-MIB ● CISCO-LWAPP-REAP-MIB ● CISCO-LWAPP-ROGUE-MIB ● CISCO-LWAPP-RRM-MIB ● CISCO-LWAPP-SI-MIB ● CISCO-LWAPP-TSM-MIB ● CISCO-LWAPP-WLAN-MIB ● CISCO-LWAPP-WLAN-SECURITY-MIB
Technical Support and Services	<ul style="list-style-type: none"> ● Cisco SMARTnet Service ● Cisco Smart Foundation Service ● Cisco SP Base Service ● Cisco Focused Technical Support Services
Environmental Ranges	
With AC power supply Operating environment and altitude	

Operating temperature up to 5000 ft (1500 m)	23°F to 113°F (-5°C to +45°C)
Operating temperature up to 10,000 ft (3000 m)	23°F to 104°F (-5°C to +40°C)
Short-term exception at sealevel with single fan failure	23°F to 113°F (-5°C to +45°C)
Short-term exception up to 5000 feet (1500 m)	23°F to 122°F (-5°C to 50°C)
Short-term exception up to 10,000 feet (3000 m)	23°F to 113°F (-5°C to 45°C)
With DC power supply Operating environment and altitude (NEBS)	
Operating temperature up to 6000 ft (1800 m)	23°F to 113°F (-5°C to +45°C)
Operating temperature up to 10,000 ft (3000 m)	23°F to 104°F (-5°C to +40°C)
Operating temperature up to 13,000 ft (4000m)	23°F to 95°F (-5°C to 35°C)
Short-term exception up to 6,000 feet (1800 m)	23°F to 131°F (-5°C to +55°C)
Short-term exception up to 10,000 feet (3000 m)	23°F to 122°F (-5°C to +50°C)
Short-term exception up to 13,000 feet (4000 m)	23°F to 113°F (-5°C to +45°C)
Short-term exception at sealevel with single fan failure	23°F to 113°F (-5°C to +45°)
Storage environment	-40°F to 160°F (-40°C to 70°C)
Operating altitude	Up to 13,000 Feet (Up to 4000 Meters)
Storage altitude	Up to 15,000 Feet (Up to 4573 Meters)
Operating relative humidity	10% to 95% noncondensing
Storage relative humidity	10% to 95% noncondensing

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