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## Overview

Cisco Catalyst WS-C3850-24S-S is the next generation enterprise-level stackable switch that is integrated with 24 SFP ports in IP base feature set. WS-C3850-24S-S supports up to 1K VLANs and delivers comprehensive layer 2 switching and limited layer 3 capabilities by offering the feasible solution for access layer or distribution layer.

## Quick Specs

Table 1 shows the Quick Specs of the WS-C3850-24S-S.

Product Code	WS-C3850-24S-S
Ports	24 x SFP ports
Network SFP Uplink Module Selection	<a href="#">C3850-NM-4-1G</a> <a href="#">C3850-NM-2-10G</a>
Network management Interface	- 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	92Gbps
Maximum stacking number	9
Stack Bandwidth	480Gbps
Forwarding Performance	68.4Mpps
RAM	4 G
Number of AP per switch/stack	50
Number of wireless clients per switch/stack	2000
Dimensions	44.5 cm x 45 cm x 4.45 cm
Manufacturer Warranty	1 year warranty

## Product Details

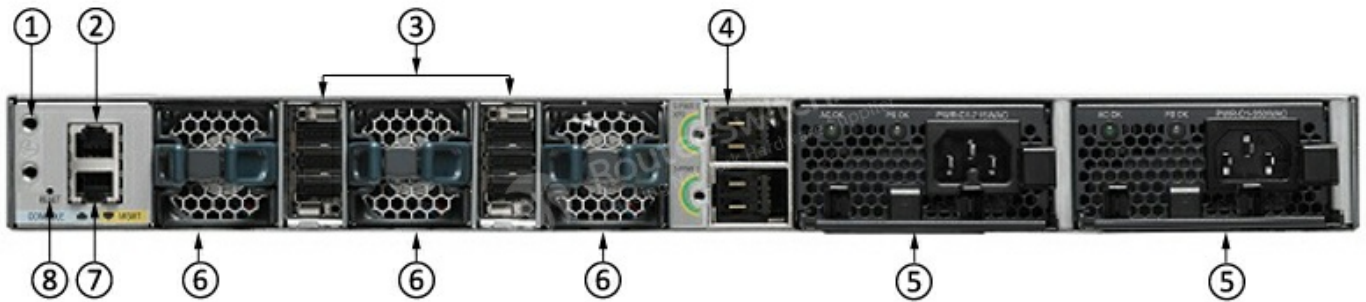
Figure 1 shows the front panel of the Cisco WS-C3850-24S-S with installed network module. The module must purchase separately.



There are 24 x 10/100/1000 SFP Optical ports on the front panel.

The switch supports one hot-swappable network module that provides uplink ports to connect to other devices. The switch should only be operated with either a network module or a blank module installed.

Figure 2 shows the back panel of the Cisco WS-C3850-24S-S.



Note

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

Figure 3 shows the StackWise-480 and StackPower connectors.

In order to stacking with LAN base feature set, WS-C3850-24S-S needs to configure in LAN base mode from CLI.



## The Accessories

Table 2 shows some recommended accessories of WS-C3850-24S-S.

Models	Description
<a href="#">C3850-NM-4-1G</a>	Cisco 3850 Series 4 x 1GE Network Module
<a href="#">C3850-NM-2-10G</a>	Cisco 3850 Series 2 x 10GE Network Module
<a href="#">L-C3850-24-S-E</a>	C3850-24 IP Base to IP Services Electronic RTU License
<a href="#">PWR-C1-350WAC</a>	Cisco 3850 Series Power Supply 350W AC
<a href="#">PWR-C1-350WAC/2</a>	Cisco 3850 Series Secondary Power Supply 350W AC Config 1 Secondary Power Supply
<a href="#">STACK-T1-50CM=</a>	Cisco StackWise-480 50cm stacking cable for Cisco Catalyst 3850 series switch

[STACK-T1-1M=](#)

Cisco StackWise-480 1m stacking cable for Cisco Catalyst 3850 series switch

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## Specification

### WS-C3850-24S-S Specification

model info:	WS-C3850-24S-S
enclosure type	Rack-mountable - 1U
Ports	24 x SFP ports
Network management Interface	<ul style="list-style-type: none"><li>● Ethernet management port: RJ-45 connectors, 4-pair Cat-5 UTP cabling</li><li>● Management console port: RJ-45-to-DB9 cable for PC connections</li></ul>
Available PoE Power	None
Switching Capacity	92Gbps
Maximum stacking number	9
Stack Bandwidth	480Gbps
Forwarding Performance	68.4Mpps
FNF entries	48,000 flows
Maximum VLANs IDs	1,000
MAC Address Table Size	32K
CPU	Multicore CPU
RAM	4 G
Flash Memory	2 G
<b>Wireless</b>	
Number of AP per switch/stack	50
Number of wireless clients per switch/stack	2000
Total number of WLANs per switch	64
Wireless bandwidth per switch	up to 20Gbps
Supported Aironet AP series	3600, 3500, 2600, 1600, 1260, 1140, 1040

<b>Expansion / Connectivity</b>	
Console ports	USB (Type-B), Ethernet (RJ-45)
Expansion Slot(s)	1 network module slot and 1 power redundant slot
Network Modules Selection	<ul style="list-style-type: none"> <li>● C3850-NM-4-1G: 4 x 1G uplinks network module</li> <li>● C3850-NM-2-10G: 2 x 10G or 4 x 1G uplinks network module</li> </ul>
Stacking cable	<ul style="list-style-type: none"> <li>● STACK-T1-50CM StackWise stacking cable with a 0.5 m length</li> <li>● STACK-T1-1M StackWise stacking cable with a 1.0 m length</li> <li>● STACK-T1-3M StackWise stacking cable with a 3.0 m length</li> </ul>
Stack Power Cable (recommended)	<ul style="list-style-type: none"> <li>● CAB-SPWR-30CM stack power cable with a 30CM length</li> <li>● CAB-SPWR-150CM stack power cable with a 150CM length</li> </ul>
Power supply	PWR-C1-350WAC
Power Device	Power supply - redundant - plug-in module
Power Redundancy	optional
Voltage range (Auto)	100V-240V
Power Consumption of standalone(in Watts)	109.75 (Max)
<b>Miscellaneous</b>	
Width	17.5 Inches (44.5 Cm)
Depth	17.7 Inches (45.0 Cm)
Height	1.75 Inches (4.45 Cm)
Weight	15.48 Pounds (7.02Kg)
Rack Mounting Kit	optional
MTBF in hours	315,840
Compliant Standards	<ul style="list-style-type: none"> <li>● IEEE 802.1D Spanning Tree Protoco</li> <li>● IEEE 802.1p CoS Prioritization</li> <li>● IEEE 802.1Q VLAN</li> <li>● IEEE 802.1s</li> <li>● IEEE 802.1w</li> <li>● IEEE 802.1X</li> <li>● IEEE 802.1X-Rev</li> <li>● IEEE 802.11</li> <li>● IEEE 802.1ab (LLDP)</li> <li>● IEEE 802.3ad</li> <li>● IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports</li> <li>● IEEE 802.3 10BASE-T</li> <li>● IEEE 802.3u 100BASE-TX</li> <li>● IEEE 802.3ab 1000BASE-T</li> <li>● IEEE 802.3z 1000BASE-X</li> <li>● RMON I and II standards</li> <li>● SNMP v1, v2c, and v3</li> </ul>
<b>System software / license</b>	
System software	IOS IP Base (Upgradable)
EnergyWise license	ENERGY-MGMT, ENERGY-MGT-100-K9
Software license	<ul style="list-style-type: none"> <li>● C3850-24-S-E: IP Base to IP Services RTU paper license</li> <li>● L-C3850-24-S-E: IP Base to IP Services RTU electronic license</li> </ul>
Access Point Licenses	<ul style="list-style-type: none"> <li>● L-LIC-CT3850-UPG: Primary upgrade license SKU for Cisco 3850 wireless controller (e-delivery)</li> <li>● L-LIC-CTIOS-1A: 1 access point adder license for Cisco IOS Software based wireless controller (e-delivery)</li> <li>● LIC-CT3850-UPG: Primary upgrade license SKU for Cisco 3850 wireless controller (paper license)</li> <li>● LIC-CTIOS-1A: 1 access point adder license for the Cisco IOS Software based wireless controller (paper license)</li> </ul>

features	<ul style="list-style-type: none"> <li>● RPS Support ● Jumbo Frames ● VLANs ● Voice Vlan ● VTPv2 ● CDPv2 ● LLDP ● 802.3ad LACP and PAgP</li> <li>● PVST/PVST+ ● 802.1W/802.1S ● Port Fast/Uplink Fast ● Dynamic Trunking Protocol (DTP) ● port CoS Trust and Override</li> <li>● Trusted Boundary ● ACL Classification ● Ingress Policing ● Auto QoS ● Per VLAN policies ● 802.1p queues ● Scheduling</li> <li>● Priority Queuing ● Configure CoS Priority Queues ● Configure CoS Priority Queues ● Configure Queue Weights ● Configure Buffers and Thresholds ● Class &amp; Policy Maps ● Modify CoS and DSCP Mapping ● Weighted Tail Drop ● IGMPv1,v2,v3 and MLDv1, v2</li> <li>● DHCP server ● DSCP transparency ● HSRP, VRRP ● RIPv1, v2 EIGRP stub, PIM stub, OSPF stub ● IPV6 management</li> </ul>
Advanced Network security	<ul style="list-style-type: none"> <li>● Port security ● DHCP snooping ● Dynamic ARP inspection (DAI) ● IP source guard ● The Unicast Reverse Path Forwarding (uRPF)</li> <li>● Bidirectional data support on a SPAN ● User authentication</li> <li>● Private VLAN ● Router and VLAN ACLs ● complete identity and security</li> <li>● Multidomain authentication ● MAC address notification</li> <li>● IGMP filtering ● Cisco security VLAN ACL</li> <li>● Secure Shell (SSH) Protocol, Kerberos, and Simple Network Management Protocol Version 3 (SNMPv3)</li> <li>● Port-based ACLs ● TrustSec SXP ● IEEE 802.1ae</li> <li>● TACACS+ and RADIUS authentication ● Cisco standard and extended IP security router ACLs</li> <li>● Bridge protocol data unit (BPDU) Guard</li> <li>● Spanning Tree Root Guard (STRG) ● Wireless end-to-end security</li> </ul>
Technical Support and Services	<ul style="list-style-type: none"> <li>● Cisco SMARTnet Service ● Cisco Smart Foundation Service ● Cisco SP Base Service ● Cisco Focused Technical Support Services</li> </ul>
<b>Environmental Ranges</b>	
<b>With AC power supply Operating environment and altitude</b>	
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)
<b>With DC power supply Operating environment and altitude (NEBS)</b>	
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 4000m)
Storage altitude	Up to 15,000 feet (Up to 4573m)

Operating relative humidity	10% to 95% noncondensing
Storage relative humidity	10% to 95% noncondensing

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