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Overview

Cisco next generation Catalyst WS-C3850-24XS-S is stackable enterprise level switch and integrated with 24 ports of SFP+ 10G Ethernet fiber connection with Flexible Netflow feature.

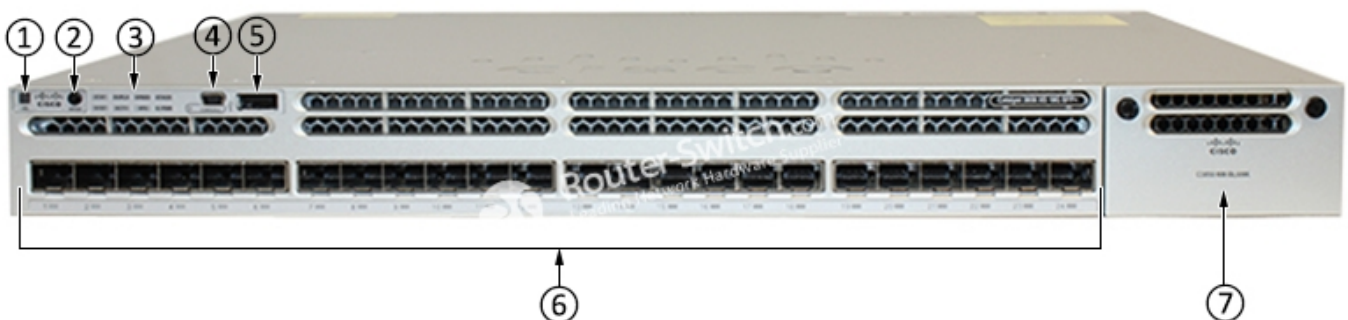
Quick Specs

Table 1 shows the Quick Specs.

| | |
|--|--|
| Product Code | WS-C3850-24XS-S |
| Enclosure Type | 1 RU |
| Feature Set | IP Base |
| Network SFP uplink module selection | C3850-NM-4-10G C3850-NM-8-10G C3850-NM-2-40G |
| Ports | 24 × 10/100/1000 10G SFP+ Optical ports |
| Maximum stacking number | 9 |
| Stack bandwidth | 480 Gpbs |
| RAM | 4 GB |
| Flash Memory | 4 GB |
| Dimensions (WDH) | 44.5 cm x 45 cm x 4.45 cm |

Product Details

Figure 1 shows the front panel of the Cisco WS-C3850-24XS-S with blank network module.

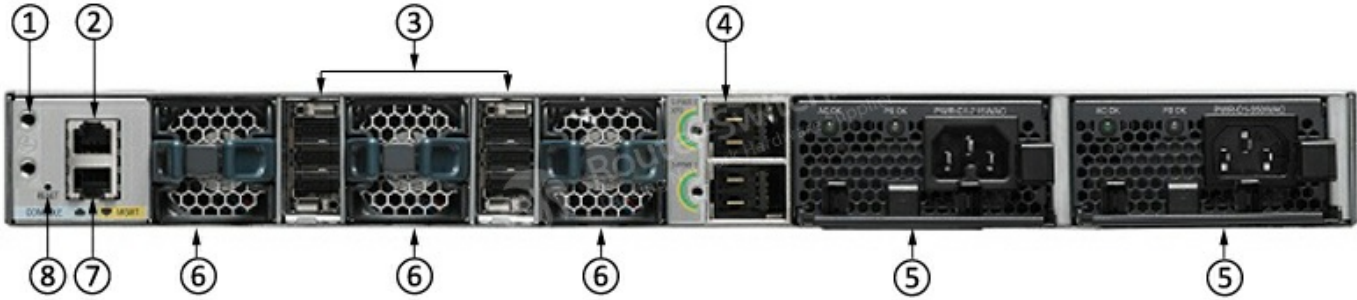


Note:

| | | | |
|-----|-------------------|-----|---|
| (1) | UID (blue beacon) | (5) | USB Type A storage port |
| (2) | Mode button | (6) | 24 × 10/100/1000 10G SFP+ Optical ports |
| (3) | Status LEDs | (7) | Network SFP uplink module slot |

| | |
|-----|--------------------------------|
| (4) | USB mini-Type B (console) port |
|-----|--------------------------------|

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



Note[]

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

Figure 3 shows the StackWise-480 and StackPower connectors.

This switch with IP Base feature set can only stack with other Catalyst 3850 Series IP Base switches.



The Modules, Licenses and Accessories

Table 2 shows some recommended modules, licenses and accessories of this switch.

| Models | Description |
|--------------------------------|---|
| 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 |
| L-C3850-24-S-E | C3850-24 IP Base to IP Services Electronic RTU License |
| PWR-C1-715WAC= | Cisco 3850 Series Power Supply PWR-C1-715WAC 715W AC Config 1 Power Supply |
| STACK-T1-50CM= | 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

Compare to Similar Items

Table 3 shows the comparison between **WS-C3850-24XS-S** and **WS-C3850-24S-S**.

| Models | WS-C3850-24XS-S | WS-C3850-24S-S |
|-------------------------------------|--|---|
| Feature Set | IP Base | IP Base |
| Ports | 24 × 10/100/1000 10G SFP+ Optical ports | 24 × 10/100/1000 SFP Optical ports |
| Network SFP uplink module selection | C3850-NM-4-10G C3850-NM-8-10G C3850-NM-2-40G | C3850-NM-4-1G C3850-NM-2-10G |

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Specification

| WS-C3850-24XS-S Specification | |
|--------------------------------------|---|
| model info: | WS-C3850-24XS-S |
| enclosure type | Rack-mountable - 1U |
| Ports | 24 x SFP+ 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 | 320Gbps |
| Maximum stacking number | up to 9 switches with same IOS feature set in same series |
| Stack Bandwidth | 480Gbps |
| Forwarding Performance | 454.55Mpps |
| FNF entries | 48,000 flows |
| Maximum VLANs IDs | 1,000 |
| MAC Address Table Size | 32K |
| CPU | Multicore CPU |
| RAM | 4 G |
| Flash Memory | 4 G |
| 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 20Gbps |
| 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 | <ul style="list-style-type: none"> ● C3850-NM-4-1G: 4 x 1G uplinks network module ● C3850-NM-2-10G: 2 x 10G or 4 x 1G uplinks network module |
| 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-C1-715WAC |
| Power Device | Power supply - redundant - plug-in module |
| Power Redundancy | optional |
| Voltage range (Auto) | 100V-240V |
| Power Consumption of standalone(in Watts) | 205.5 (Max) |
| Miscellaneous | |
| Width | 17.5 Inches (44.5 cm) |
| Depth | 17.7 Inches (45.0 cm) |
| Height | 1.75 Inches (4.45 cm) |
| Weight | 13.5 Pounds (6.1 Kg) |
| Rack Mounting Kit | optional |
| MTBF in hours | 307,990 |
| 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 |
| Software license | <ul style="list-style-type: none"> ●C3850-24-S-E: IP Base to IP Services RTU paper license ●L-C3850-24-S-E: IP Base to IP Services RTU electronic license |
| Access Point Licenses | <ul style="list-style-type: none"> ●L-LIC-CT3850-UPG: Primary upgrade license SKU for Cisco 3850 wireless controller (e-delivery) ●L-LIC-CTIOS-1A: 1 access point adder license for Cisco IOS Software based wireless controller (e-delivery) ●LIC-CT3850-UPG: Primary upgrade license SKU for Cisco 3850 wireless controller (paper license) ●LIC-CTIOS-1A: 1 access point adder license for the Cisco IOS Software based wireless controller (paper license) |
| 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-IFTABLE-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 ●AIRESPLACE-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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Selection Decision

 [Cisco's New Switch Selection Decision 2018](#)

Support and Resources

 [Cisco Switch Catalyst 3850 Datasheet](#)

 [Comparison: Cisco Switches vs. HPE/Aruba Switches](#)

Transition Guide

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 [Selecting Cisco Switches-Campus, Branch, Digital Building](#)

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