

WS-C3850-24U-S

Datasheet

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Overview

Cisco WS-C3850-24U-S supports Stackable 24 10/100/1000 Cisco UPOE ports, 1 network module slot, 1100 W power supply and 1RU chassis. Cisco Catalyst 3850 Series provides capabilities that ideally suited to support the convergence of wired and wireless access. The new Cisco Unified Access Data™ Plane (UADP) Application-Specific Integrated Circuit (ASIC) powers the switch and enables uniform wired-wireless policy enforcement, application visibility, flexibility, and application optimization. This convergence is built on the resilience of the new and improved Cisco StackWise®-480 technology.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	WS-C3850-24U-S
Enclosure Type	1 RU
Feature Set	IP Base
Network SFP uplink module selection	C3850-NM-4-1G C3850-NM-2-10G
Ports	24 10/100/1000 Cisco UPOE ports
Available PoE power	800W
Default AC power supply	1100WAC
Switching Capacity	92 Gbps
Maximum stacking number	9
Stack bandwidth	480 Gbps
RAM	4 GB
Flash Memory	2 GB
Number of AP per switch/stack	100
Number of wireless clients per switch/stack	2000
Dimensions	4.45 cm x 44.5 cm x 48.8 cm

The Modules

Table 2 shows some recommended modules of this switch.

Models	Description
C3850-NM-4-1G	Cisco 3850 Series 4 x 1GE Network Module
C3850-NM-2-10G	Cisco 3850 Series 2 x 10GE Network Module
C3850-NM-BLANK	Cisco 3850 Series Blank Network Module
PWR-C1-1100WAC	Cisco 3850 Series Secondary Power Supply 1100W AC Config 1 Secondary Power Supply

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Specification

WS-C3850-24U-S Specification	
model info:	WS-C3850-24U-S
enclosure type	Rack-mountable - 1U
Ports	Stackable 24 10/100/1000 Cisco UPOE ports
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	800W
Maximum stacking number	up to 9 switches with same IOS feature set in same series
Stack Bandwidth	480Gbps
CPU	Multicore CPU
RAM	4 G
Flash Memory	2 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	C3850-NM-4-1G C3850-NM-2-10G
Stacking cable	- 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)	- 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/2=
Power Device	Power supply - redundant - plug-in module
Power Redundancy	optional
Voltage range (Auto)	100V-240V

Power Consumption of standalone(in Watts)	84.97 (max)
Miscellaneous	
Dimensions (H x W x D)	1.75 x 17.5 x 19.2 inch; 4.45 x 44.5 x 48.8 cm
Rack Mounting Kit	optional
MTBF in hours	237,310
Compliant Standards	• IEEE 802.1D Spanning Tree Protocol • 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
EnergyWise license	ENERGY-MGMT, ENERGY-MGT-100-K9
Features	•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	•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	• 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-IPMRROUTE-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 •IPMRROUTE-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	•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°C)
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

 [Find the Right 3650 and 3850 Models](#)

 [Guide to Upgrade Cisco Access and Backbone Switch](#)

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

 [Migrating from Catalyst 3850, Catalyst 4500E/4500X, Catalyst 6800 to Catalyst 9000](#)

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