

## Overview

Cisco Catalyst WS-C3850-24T-E is stackable enterprise level switch and integrated with 24 Ethernet ports in IP service feature set. It enables sophisticated layer2-4 switching capability by providing the optimal solution for access layer and aggregation layer.

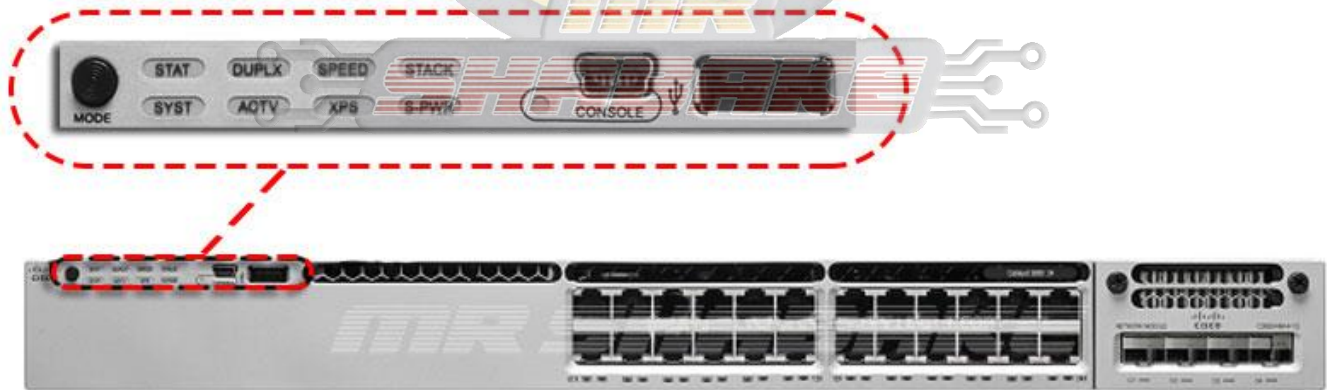
### Quick Specs

Table 1 shows the Quick Specs.

Product Code	WS-C3850-24T-E
Enclosure Type	Rack-mountable - 1U
Feature Set	IP Service
Network SFP uplink module selection	<a href="#">C3850-NM-4-1G</a> <a href="#">C3850-NM-2-10G</a>
Downlink Ports	24 x 10/100/1000
Maximum stacking number	9
Stack bandwidth	480 Gbps
Forwarding Performance	68.4 Mpps
Switching Capacity	92 Gbps
RAM	4 GB
Flash Memory	2 GB
Dimensions	44.5 cm x 45.0 cm x 4.45 cm

### Product Details

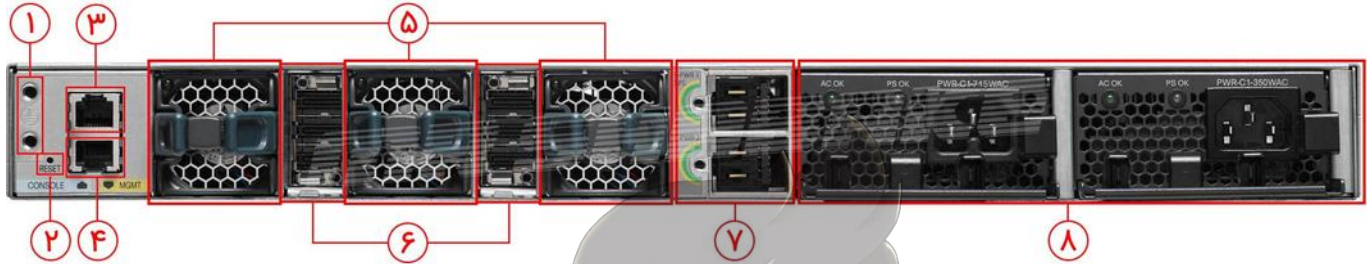
Figure 1 shows the front panel of the WS-C3850-24T-E with C3850-NM-4-1G.



·The status LEDs include STAT (status), DUPLX (duplex), SPEED, STACK, SYST (system), ACTV (active) XPS (expandable power system) and S-PWR (Stack Power).

·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.

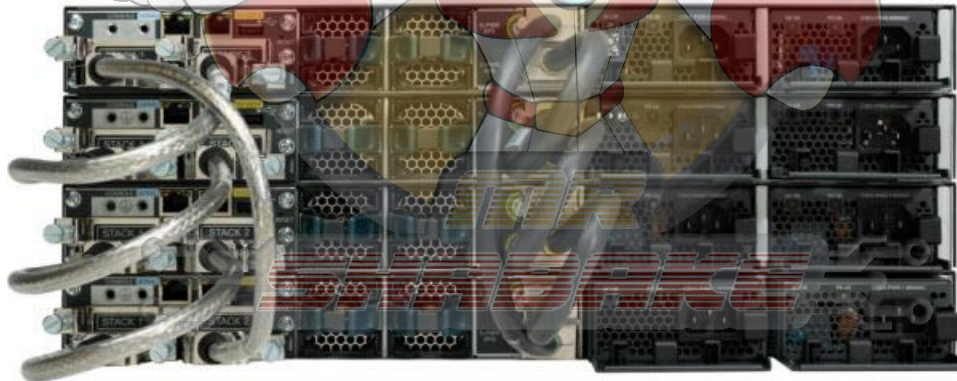
Figure 2 shows the back panel of the WS-C3850-24T-E.



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

Figure 3 shows the StackWise-480 and StackPower connectors.

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



### The Modules, Licenses and Accessories

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

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="#">PWR-C1-350WAC</a>	Cisco 3850 Series Power Supply 350W AC
PWR-C1-350WAC/2	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
<a href="#">STACK-T1-1M=</a>	Cisco StackWise-480 1m stacking cable for Cisco Catalyst 3850 series switch

## Compare to Similar Items

Table 3 shows the comparison of similar items.

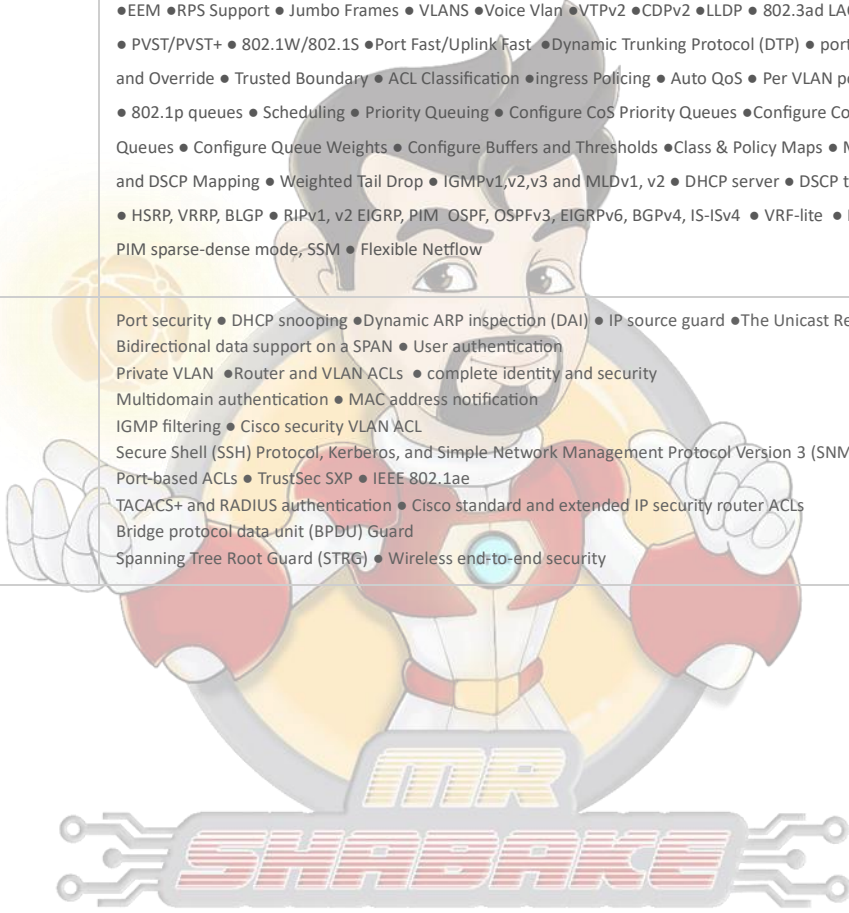
Models	<a href="#">WS-C3850-24T-E</a>	<a href="#">WS-C3850-48T-E</a>
Feature Set	IP Service	IP Service
Ports	24 x 10/100/1000	48 x 10/100/1000
Network SFP uplink module selection	C3850-NM-4-1G C3850-NM-2-10G	C3850-NM-4-1G C3850-NM-2-10G C3850-NM-4-10G

## Specification

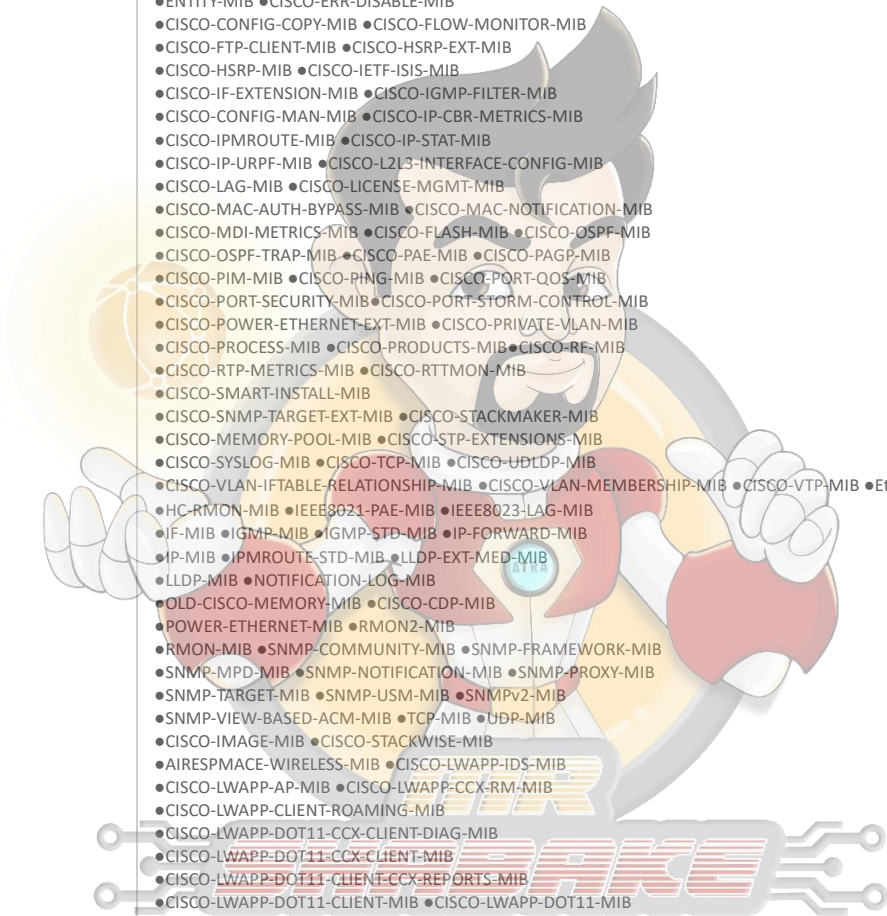
WS-C3850-24T-E Specification	
enclosure type	Rack-mountable - 1U
Ports	24 x 10/100/1000 Ports
Network management Interface	<ul style="list-style-type: none"> <li>Ethernet management port: RJ-45 connectors, 4-pair Cat-5 UTP cabling</li> <li>Management console port: RJ-45-to-DB9 cable for PC connections</li> </ul>
Available PoE Power	None
Switching Capacity	92Gbps
Maximum stacking number	up to 9 switches with same IOS feature set in same series
Stack Bandwidth	480Gbps
Forwarding Performance	68.4Mpps
FNF entries	24,000 flows
Maximum VLANs IDs	4,000
MAC Address Table Size	32K
CPU	Multicore CPU
RAM	4 G
Flash Memory	2 G
<b>Wireless</b>	
Number of AP per switch/stack	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
<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)	84.97 (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	15.97 Pounds (7.02 Kg)
Rack Mounting Kit	optional
MTBF in hours	303,230
Compliant Standards	<ul style="list-style-type: none"> <li>● IEEE 802.1D Spanning Tree Protocol</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 Service
EnergyWise license	ENERGY-MGMT, ENERGY-MGT-100-K9

<p><b>Access Point Licenses</b></p>	<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>
<p><b>features</b></p>	<ul style="list-style-type: none"> <li>●EEM ●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 ● Trusted Boundary ● ACL Classification ●Ingress Policing ● Auto QoS ● Per VLAN policies</li> <li>● 802.1p queues ● Scheduling ● 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 ● DHCP server ● DSCP transparency</li> <li>● 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</li> </ul>
<p><b>Advanced Network security</b></p>	<p>Port security ● DHCP snooping ●Dynamic ARP inspection (DAI) ● IP source guard ●The Unicast Reverse PathForwarding (uRPF) Bidirectional data support on a SPAN ● User authentication</p> <p>Private VLAN ●Router and VLAN ACLs ● complete identity and security</p> <p>Multidomain authentication ● MAC address notification</p> <p>IGMP filtering ● Cisco security VLAN ACL</p> <p>Secure Shell (SSH) Protocol, Kerberos, and Simple Network Management Protocol Version 3 (SNMPv3)</p> <p>Port-based ACLs ● TrustSec SXP ● IEEE 802.1ae</p> <p>TACACS+ and RADIUS authentication ● Cisco standard and extended IP security router ACLs</p> <p>Bridge protocol data unit (BPDU) Guard</p> <p>Spanning Tree Root Guard (STRG) ● Wireless end-to-end security</p>



<p>Management</p>	<ul style="list-style-type: none"> <li>●BRIDGE-MIB ●CISCO-AUTH-FRAMEWORK-MIB</li> <li>●CISCO-BGP4-MIB, BGP4-MIB ●CISCO-BRIDGE-EXT-MIB</li> <li>●CISCO-BULK-FILE-MIB ●CISCO-CABLE-DIAG-MIB</li> <li>●CISCO-CALLHOME-MIB ●CISCO-CEF-MIB</li> <li>●CISCO-CIRCUIT-INTERFACE-MIB</li> <li>●CISCO-ENTITY-VENDORTYPE-OID-MIB</li> <li>●CISCO-CONTEXT-MAPPING-MIB</li> <li>●CISCO-DEVICE-LOCATION-MIB ●CISCO-DHCP-SNOOPING-MIB</li> <li>●CISCO-EIGRP-MIB</li> <li>●CISCO-EMBEDDED-EVENT-MGR-MIB</li> <li>●CISCO-ENTITY-FRU-CONTROL-MIB ●CISCO-ENTITY-SENSOR-MIB</li> <li>●ENTITY-MIB ●CISCO-ERR-DISABLE-MIB</li> <li>●CISCO-CONFIG-COPY-MIB ●CISCO-FLOW-MONITOR-MIB</li> <li>●CISCO-FTP-CLIENT-MIB ●CISCO-HSRP-EXT-MIB</li> <li>●CISCO-HSRP-MIB ●CISCO-IETF-ISIS-MIB</li> <li>●CISCO-IF-EXTENSION-MIB ●CISCO-IGMP-FILTER-MIB</li> <li>●CISCO-CONFIG-MAN-MIB ●CISCO-IP-CBR-METRICS-MIB</li> <li>●CISCO-IPMROUTE-MIB ●CISCO-IP-STAT-MIB</li> <li>●CISCO-IP-URPF-MIB ●CISCO-L2L3-INTERFACE-CONFIG-MIB</li> <li>●CISCO-LAG-MIB ●CISCO-LICENSE-MGMT-MIB</li> <li>●CISCO-MAC-AUTH-BYPASS-MIB ●CISCO-MAC-NOTIFICATION-MIB</li> <li>●CISCO-MDI-METRICS-MIB ●CISCO-FLASH-MIB ●CISCO-OSPF-MIB</li> <li>●CISCO-OSPF-TRAP-MIB ●CISCO-PAE-MIB ●CISCO-PAGP-MIB</li> <li>●CISCO-PIM-MIB ●CISCO-PING-MIB ●CISCO-PORT-QOS-MIB</li> <li>●CISCO-PORT-SECURITY-MIB ●CISCO-PORT-STORM-CONTROL-MIB</li> <li>●CISCO-POWER-ETHERNET-EXT-MIB ●CISCO-PRIVATE-VLAN-MIB</li> <li>●CISCO-PROCESS-MIB ●CISCO-PRODUCTS-MIB ●CISCO-RF-MIB</li> <li>●CISCO-RTP-METRICS-MIB ●CISCO-RTTMON-MIB</li> <li>●CISCO-SMART-INSTALL-MIB</li> <li>●CISCO-SNMP-TARGET-EXT-MIB ●CISCO-STACKMAKER-MIB</li> <li>●CISCO-MEMORY-POOL-MIB ●CISCO-STP-EXTENSIONS-MIB</li> <li>●CISCO-SYSLOG-MIB ●CISCO-TCP-MIB ●CISCO-UDLD-MIB</li> <li>●CISCO-VLAN-IPTABLE-RELATIONSHIP-MIB ●CISCO-VLAN-MEMBERSHIP-MIB ●CISCO-VTP-MIB ●EtherLikeMIB</li> <li>●HC-RMON-MIB ●IEEE8021-PAE-MIB ●IEEE8023-LAG-MIB</li> <li>●IF-MIB ●IGMP-MIB ●IGMP-STD-MIB ●IP-FORWARD-MIB</li> <li>●IP-MIB ●IPMROUTE-STD-MIB ●LLDP-EXT-MED-MIB</li> <li>●LLDP-MIB ●NOTIFICATION-LOG-MIB</li> <li>●OLD-CISCO-MEMORY-MIB ●CISCO-CDP-MIB</li> <li>●POWER-ETHERNET-MIB ●RMON2-MIB</li> <li>●RMON-MIB ●SNMP-COMMUNITY-MIB ●SNMP-FRAMEWORK-MIB</li> <li>●SNMP-MPD-MIB ●SNMP-NOTIFICATION-MIB ●SNMP-PROXY-MIB</li> <li>●SNMP-TARGET-MIB ●SNMP-USM-MIB ●SNMPv2-MIB</li> <li>●SNMP-VIEW-BASED-ACM-MIB ●TCP-MIB ●UDP-MIB</li> <li>●CISCO-IMAGE-MIB ●CISCO-STACKWISE-MIB</li> <li>●AIRESPLACE-WIRELESS-MIB ●CISCO-LWAPP-IDS-MIB</li> <li>●CISCO-LWAPP-AP-MIB ●CISCO-LWAPP-CCX-RM-MIB</li> <li>●CISCO-LWAPP-CLIENT-ROAMING-MIB</li> <li>●CISCO-LWAPP-DOT11-CCX-CLIENT-DIAG-MIB</li> <li>●CISCO-LWAPP-DOT11-CCX-CLIENT-MIB</li> <li>●CISCO-LWAPP-DOT11-CLIENT-CCX-REPORTS-MIB</li> <li>●CISCO-LWAPP-DOT11-CLIENT-MIB ●CISCO-LWAPP-DOT11-MIB</li> <li>●CISCO-LWAPP-DOWNLOAD-MIB ●CISCO-LWAPP-LINKTEST-MIB</li> <li>●CISCO-LWAPP-MFP-MIB ●CISCO-LWAPP-MOBILITY-EXT-MIB</li> <li>●CISCO-LWAPP-QOS-MIB ●CISCO-LWAPP-REAP-MIB</li> <li>●CISCO-LWAPP-ROGUE-MIB ●CISCO-LWAPP-RRM-MIB</li> <li>●CISCO-LWAPP-SI-MIB ●CISCO-LWAPP-TSM-MIB</li> <li>●CISCO-LWAPP-WLAN-MIB ●CISCO-LWAPP-WLAN-SECURITY-MIB</li> </ul>
<p>Technical Support and Services</p>	<p>● Cisco SMARTnet Service ● Cisco Smart Foundation Service ● Cisco SP Base Service ● Cisco Focused Technical Support Services</p>
<p><b>Environmental Ranges</b></p>	
<p><b>With AC power supply Operating environment and altitude</b></p>	
<p>Operating temperature up to 5000 ft (1500 m)</p>	<p>23°F to 113°F (-5°C to +45°C)</p>
<p>Operating temperature up to 10,000 ft (3000 m)</p>	<p>23°F to 104°F (-5°C to +40°C)</p>
<p>Short-term exception at sealevel with single fan failure</p>	<p>23°F to 113°F (-5°C to +45°C)</p>



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°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

شما میتوانید کلیه تجهیزات شبکه را با گارانتی و ضمانت اصالت کالا از [فروشگاه اینترنتی مستر شبکه](#) تهیه کنید.

## مقالات مرتبط :

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