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## Overview

Cisco next generation Catalyst WS-C3850-12S-E is stackable enterprise level switch and integrated with 12 SFP 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 Specification

|                                     |  |
|-------------------------------------|--|
| Product Code                        | WS-C3850-12S-E                         |
| Enclosure Type                      | 1RU                                    |
| Feature Set                         | IP Service                             |
| Network SFP uplink module selection | C3850-NM-4-1G、 C3850-NM-2-10G          |
| Ports                               | 12 x 10/100/1000 10G SFP Optical ports |
| Maximum stacking number             | 9                                      |
| Stack bandwidth                     | 480 Gpbs                               |
| Forwarding Performance              | 68.4 Mpps                              |
| Switching Capacity                  | 68 Gbps                                |
| RAM                                 | 4 GB                                   |
| Flash Memory                        | 2 GB                                   |
| Dimensions                          | 4.45 cm x 44.5 cm x 45.0 cm            |
| Package Weight                      | 17.49 Kg                               |

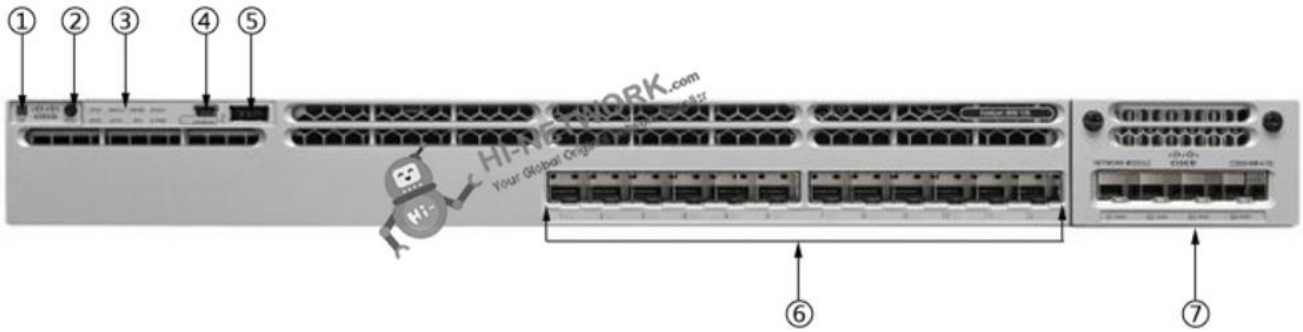


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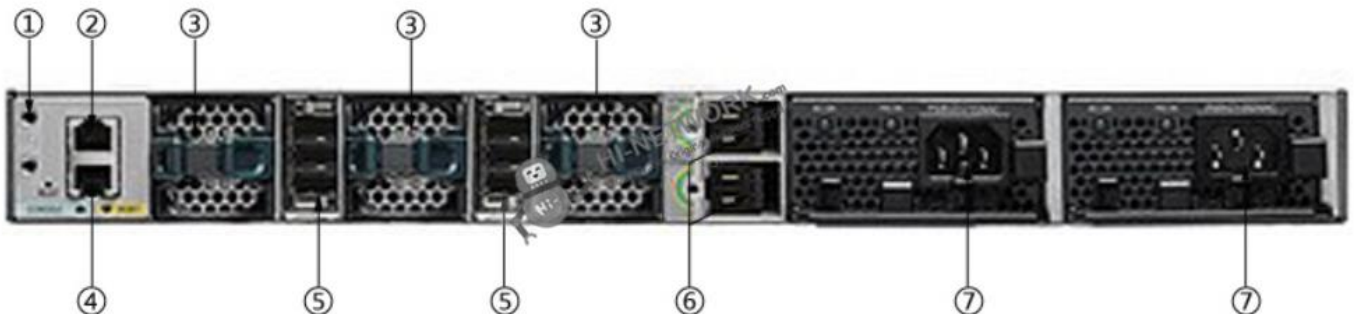
**Product Details:**

**The Front Panel:**



|   |                                |
|---|--------------------------------|
| ① | UID (blue beacon)              |
| ② | Mode button                    |
| ③ | Status LEDs                    |
| ④ | USB mini-Type B (console) port |
| ⑤ | USB Type A storage port        |
| ⑥ | 12 ports of 10G SFP+           |
| ⑦ | Network SFP uplink module slot |

**The Other Panel:**



|   |                              |
|---|------------------------------|
| ① | Ground connector             |
| ② | CONSOLE (RJ-45 console port) |



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|   |                           |
|---|---------------------------|
| ③ | Fan module                |
| ④ | MGMT port                 |
| ⑤ | StackWise port connectors |
| ⑥ | StackPower connectors     |
| ⑦ | Power supply modules      |

## Accessories For WS-C3850:

### Modules and Cables:

| Part number                    | 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  |
| PWR-C1-350WAC                  | Cisco 3850 Series Power Supply 350W AC   |
| PWR-C1-350WAC/2                | Cisco 3850 Series Secondary Power Supply 350W AC Config 1 Secondary Power Supply |
| STACK-T1-50CM=                 | 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:

| Models                              | <a href="#">WS-C3850-12S-S</a>  | <a href="#">WS-C3850-12S-E</a>  |
|-------------------------------------|---|---|
| Feature Set                         | IP Base   | IP Service  |
| Ports                               | 12 ports of SFP Ethernet fiber connection with Flexible Netflow feature | 12 ports of SFP Ethernet fiber connection with Flexible Netflow feature |
| Network SFP uplink module selection | C3850-NM-4-1G<br>C3850-NM-2-10G   | C3850-NM-4-1G<br>C3850-NM-2-10G   |

Get more information:

Do you have any question about WS-C3850-12S-E?

Contact us now via e-mail: [info@hi-network.com](mailto:info@hi-network.com)

## Specific Data Sheet:

|       |                |
|-------|----------------|
| Model | WS-C3850-12S-E |
|-------|----------------|



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|   |  |
|---|--|
| Enclosure type                              | Rack-mountable – 1U  |
| Ports                                       | 12 x SFP ports   |
| Network management Interface                | Ethernet management port: RJ-45 connectors, 4-pair Cat-5 UTP cabling<br>Management console port: RJ-45-to-DB9 cable for PC connections   |
| Available PoE Power                         | None   |
| Switching Capacity                          | 68 Gbps  |
| Maximum stacking number                     | 9  |
| Stack Bandwidth                             | 480 Gbps   |
| Forwarding Performance                      | 68.4 Mpps  |
| FNF entries                                 | 48,000 flows   |
| Maximum VLANs IDs                           | 1000   |
| Maximum VLANs IDs                           | 32K  |
| CPU   | Multicore CPU  |
| RAM   | 4 G  |
| Flash Memory                                | 2 G  |
| 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 20 Gbps  |
| Supported Aironet AP series                 | 3600, 3500, 2600, 1600, 1260, 1140, 1040   |
| 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)   |
| Width                                       | 17.5 Inches (44.5 cm)  |
| Depth                                       | 17.7 Inches (45.0 cm)  |
| Height                                      | 1.75 Inches (4.45 cm)  |





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|-----------------------|---|
| Weight                | 15.48 Pounds (7.02 Kg)  |
| 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>   |
| System software       | IOS IP Service  |
| EnergyWise license    | ENERGY-MGMT, ENERGY-MGT-100-K9  |
| Software license      | <ul style="list-style-type: none"> <li>● C3850-12-S-E: IP Base to IP Services RTU paper license</li> <li>● L-C3850-12-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 ● 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</li> <li>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> |





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| 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</li> <li>● Cisco SP Base Service ● Cisco Focused Technical Support Services</li> </ul>  |
| 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)   |
| 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 5                              | 10% to 95% noncondensing   |



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