

WS-C3850-12X48U-E

Datasheet



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Overview

Stackable 12 100M/1G/2.5G/5G/10G and 36 1 G UPoE ports, 1 network module slot, 1100 W power supply

Switch to Something New

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Specification

WS-C3850-12X48U-E Specification	
Capacity	
Type	Virtual interfaces (VLANs)
Value	4000
Dimensions & Weight	
Width	17.5 in
Depth	19.2 in
Height	1.8 in
Weight	17.64 lbs
Environmental Parameters	
Min Operating Temperature	23 °F
Max Operating Temperature	113 °F
Humidity Range Operating	10 - 95% (non-condensing)
Min Storage Temperature	-40 °F
Max Storage Temperature	158 °F
Flash Memory	
Installed Size	2 GB
Header	
Compatibility	PC
Manufacturer	Cisco Systems
Packaged Quantity	1

Product Line	Cisco Catalyst
Model	3850-12X48U-E
Brand	Cisco
Interface Provided	
Qty	36
Type	Management (mini-USB)
Connector Type	Type B
Comments	Management
PoE Power	60 W
Miscellaneous	
Compliant Standards	AS/NZS 3548 Class A, AS/NZS CISPR 22, BSMI Class A, CAN/CSA C22.2 No. 60950-1, CCC, CISPR 22 Class A, CISPR 24, CNS 13438, EN 300386, EN 55022 Class A, EN 60950-1, EN 60950-1 Second Edition, EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-6-1, EN50082-1, EN55024, FCC CFR47 Part 15, FCC Part 15 A, ICES-003 Class A, IEC 60950-1, IEC 60950-1 Second Edition, KCC, KN22 Class A, KN24, NOM, RoHS 5/6, UL 60950-1, UL 60950-1 Second Edition, VCCI Class A
Authentication Method	Kerberos, RADIUS, Secure Shell (SSH), TACACS+
MTBF	202,030 hours
Height (Rack Units)	1
Color Category	Gray
Networking	
Type	Switch
Remote Management Protocol	CLI, RMON 1, RMON 2, SNMP 1, SNMP 2c, SNMP 3, SSH, Telnet, TFTP
Compliant Standards	IEEE 802.1D, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1s, IEEE 802.1w, IEEE 802.1x, IEEE 802.3, IEEE 802.3ab, IEEE 802.3ad (LACP), IEEE 802.3af, IEEE 802.3at, IEEE 802.3u, IEEE 802.3x
Status Indicators	Active, PoE, Port duplex mode, Port transmission speed, Power, Status, System
Ports Qty	48
Features	802.1x authentication, Access Control List (ACL) support, ARP inspection, ARP support, Bridge protocol data unit (BPDU), Cisco StackPower technology, Cisco StackWise-480 technology, Control plane protection (CoPP), DHCP snooping, DHCP support, Dynamic Trunking Protocol (DTP) support, Energy Efficient Ethernet, Link Aggregation Control Protocol (LACP), Multiple Spanning Tree Protocol (MSTP) support, PIM snooping, Port Aggregation Protocol (PAgP) support, Quality of Service (QoS), Radio resource management (RRM), Rapid Per-VLAN Spanning Tree Plus (PVRST+), Remote Switch Port Analyzer (RSPAN), Shaped Round Robin (SRR), SSH support, Syslog support, Trivial File Transfer Protocol (TFTP) support, Uni-Directional Link Detection (UDLD), Virtual Route Forwarding-Lite (VRF-Lite), Virtual Routing and Forwarding (VRF), VLAN Trunking Protocol (VTP), Weighted Tail Drop (WTD)
Routing Protocol	BGP-4, EIGRP, EIGRP for IPv6, IGMP, IGMPv2, IGMPv3, IS-IS, MLD, MLDv2, OSPF, OSPFv3, PIM-DM, PIM-SM, PIM-SSM, Policy-based routing (PBR), RIP-1, RIP-2, RIPng
MAC Address Table Size	32000 entries
Stackable	Stackable

Subcategory	Network hubs and switches
Power Over Ethernet (PoE)	UPOE
Advanced Switching	Layer 3
Manageable	Yes
Form Factor	Desktop, Rack-mountable
Jumbo Frame Support	9198 bytes
Subtype	Gigabit Ethernet
PoE Budget	630 W
Performance	
Type	Switching capacity
Value	176 Gbps
Ports	
Qty	48
Type	10/100/1000 (UPOE)
Power Device	
Frequency Required	50 - 60 Hz
Power Provided	1100 Watt
Installed Qty	1
Max Supported Qty	2
Nominal Voltage	AC 120/230 V
Power Redundancy	Optional
Power Redundancy Scheme	1+1 (with optional power supply)
Type	Internal power supply
RAM	
Installed Size	4 GB
Service	
Support Details Type	Technical support
Support Details Service Included	Consulting

Support Details Full Contract Period	90 days
Service & Support	
Type	Limited lifetime warranty
Service & Support Details	
Response Time	Next business day
Slot Provided	
Type	Expansion slot
Total Qty	1
Free Qty	1
Software	
Type	Cisco IOS IP Services

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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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