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Refurbished CISCO WS-C3850-48U-E Datasheet

CISCO > SWITCHES

Cisco Catalyst 3850 Series Switches

Cisco Catalyst 3850 Series configurations

	Model
Total 10/100/1000 or SFP or SFP+ ports	48 UPOE
Default AC power supply	1100WAC
Available PoE power	800W
POE budget with 1100W secondary PS	1900W
StackWise-480	Yes
StackPower	Yes

Network module compatibility matrix

	Model
Network modules	C3850-NM-4-1G, C3850-NM-2-10G, C3850-NM-4-10G

Cisco Catalyst 3850 Series performance specifications

	Performance numbers for all switch models
Switching capacity	176 Gbps on 48-port Gigabit Ethernet model 92 Gbps on 24-port Gigabit Ethernet model 68 Gbps on 12-port Gigabit Ethernet model 640 Gbps on 24-port Multigigabit Ethernet model 472 Gbps on 48-port Multigigabit Ethernet model 1280 Gbps on 48-port 10 Gigabit Ethernet SFP+ model 640 Gbps on 24-port 10 Gigabit Ethernet SFP+ model 320 Gbps on 12-port 10 Gigabit Ethernet SFP+ model
Stacking bandwidth	480 Gbps
Total number of MAC addresses	32,000
Total number of IPv4 routes (ARP plus learned routes)	24,000
FNF entries	48,000 flow on 48-port Gigabit Ethernet models 24,000 flows on 12-port and 24-port Gigabit Ethernet models 96,000 flows on 48-port 10 Gigabit Ethernet SFP+ model 48,000 flows on 24-port 10 Gigabit Ethernet SFP+ model 24,000 flows on 12-port 10 Gigabit Ethernet SFP+ model
DRAM	4 GB (8 GB on 48-port SFP+ model)
Flash	2 GB (4 GB on 12-port and 24-port SFP+ models, 8 GB on 48-port SFP+ model)
VLAN IDs	4,000
Total Switched Virtual Interfaces (SVIs)	1,000
Jumbo frame	9198 bytes
	Wireless

Number of access points 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 40 Gbps on 48-port Gigabit Ethernet model Up to 20 Gbps on 24-port Gigabit Ethernet model

Model	
Model	Forwarding rate
WS-C3850-12S	50.5 Mpps
WS-C3850-24T WS-C3850-24P WS-C3850-24S	68.4 Mpps
WS-C3850-48T WS-C3850-48P WS-C3850-48F	130.95 Mpps
WS-C3850-24XU	500 Mpps (80B packets)
WS-C3850-12X48U	460 Mpps (64B packets)
WS-C3850-12XS	227.28 Mpps
WS-C3850-24XS	454.55 Mpps
WS-C3850-48XS	909 Mpps

Dimensions, weight, acoustic, MTBF, and environmental range

Dimensions (H x W x D)	
Inches	1.75 x 17.5 x 19.2
Centimeters	4.45 x 44.5 x 48.8

Weight	
Pounds	17.6
Kilograms	8.0

MTBF hours	
MTBF hours	205,110

Environmental ranges	
With AC power supply Operating environment and altitude	Normal operating temperature and altitudes: -5ºC to +45ºC, up to 5000 feet (1500m) -5ºC to +40ºC, up to 10,000 feet (3000m) Minimum ambient temperature for cold start is 32°F (0°C) Short-term exceptional conditions: -5ºC to +50ºC, up to 5000 feet (1500m) -5ºC to +45ºC, up to 10,000 feet (3000m) -5ºC to +45ºC, at sea level with single fan failure Not more than following in one-year period: 96 consecutive hours, or 360 hours total, or 15 occurrences.
With DC power supply Operating environment and altitude (NEBS)	Normal operating temperature and altitudes: -5ºC to +45ºC, up to 6000 feet (1800m) -5ºC to +40ºC, up to 10,000 feet (3000m) -5ºC to +35ºC, up to 13,000 feet (4000m) Short-term exceptional conditions: -5ºC to +55ºC, up to 6000 feet (1800m) -5ºC to +50ºC, up to 10,000 feet (3000m) -5ºC to +45ºC, up to 13,000 feet (4000m) -5ºC to +45ºC, at sea level with single fan failure Not more than following in one-year period: 96 consecutive hours, or 360 hours total, or 15 occurrences.

Acoustic noise Measured per ISO 7779 and declared per ISO 9296 Bystander positions operating to an ambient temperature of 25°C

Acoustic noise Measured per ISO 7779 and declared per ISO 9296 Bystander positions operating to an ambient temperature of 25°C	With AC or DC power supply (with 24 PoE+ ports loaded): LpA: 43dB typical, 45dB maximum LwA: 5.2B typical, 5.5B maximum Typical: Noise emission for a typical configuration Maximum: Statistical maximum to account for variation in production
Storage environment	Temperature: -40ºC to 70ºC Altitude: 15,000 ft
Vibration	Operating: 0.41Grms from 3 to 500Hz with spectral break points of 0.0005 G2/Hz at 10Hz and 200Hz 5dB/octave roll off at each end.
Shock	Operating: 30G, 2ms half sine

Connectors

Connectors and cabling	1000BASE-T ports: RJ-45 connectors, 4-pair Cat-5E UTP cabling Multigig-T ports: RJ-45 connectors, 4-pair Cat-5E, Cat-6, Cat6A UTP cabling 1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Cat-5E UTP cabling 100BASE-FX, 1000BASE-SX, -LX/LH, -ZX, -BX10, DWDM and CWDM SFP transceivers: LC fiber connectors (single-mode or multimode fiber) 10GBASE-SR, LR, LRM, ER, ZR, DWDM SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber) CX1 cable assemblies: SFP+ connector Cisco StackWise-480 stacking ports: copper-based Cisco StackWise cabling Cisco StackPower: Cisco proprietary power stacking cables Ethernet management port: RJ-45 connectors, 4-pair Cat-5 UTP cabling Management console port: RJ-45-to-DB9 cable for PC connections
Power connectors	Customers can provide power to a switch by using either the internal power or StackPower from another member in the power stack. The connectors are located at the back of the switch. Internal power supply connector: The internal power supply is an autoranging unit. The internal power supply supports input voltages between 100 and 240VAC. Use the supplied AC power cord to connect the AC power connector to an AC power outlet.

Power consumptions (in watts) of standalone Cisco Catalyst 3850 Series

	Model
Uplink module	C3850-NM-4-1G
100% traffic	114.7
Weighted average	115.6
Model	114.8

Safety and compliance information for the Cisco Catalyst 3850 Series

	Description
Description	Specification
Safety certifications	UL 60950-1 Second Edition CAN/CSA-C22.2 No. 60950-1 Second Edition EN 60950-1 Second Edition IEC 60950-1 Second Edition NOM (obtained by partners and distributors)
Electromagnetic emissions certifications	47CFR Part 15 (CFR 47) Class A (FCC Part 15 Class A) AS/NZS CISPR22 Class A CISPR22 Class A EN55022 Class A ICES003 Class A VCCI Class A EN61000-3-2 EN61000-3-3 KN22 Class A KCC CNS13438 Class A EN55024 CISPR24 KN24
Environmental	Reduction of Hazardous Substances (ROHS) 5

Noise specifications	Office Product Spec: 48dBA at 30°C (refer to ISO 7779)
Telco	CLEI code

The next steps...

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