

# Cisco Catalyst 3650-48FS-S - Switch

L3 - Managed - 48 x 10/100/1000 (PoE+) + 4 x SFP - desktop - rack-mountable - PoE+ (775 W)

Group	Network Equipment
Manufacturer	Cisco
Manufacturer item no.	WS-C3650-48FS-S
EAN/UPC	0882658593420



## Description

The Cisco Catalyst 3650 series is the enterprise-class standalone and stackable access-layer switch that provides the foundation for full convergence between wired and wireless on a single platform. The Cisco Catalyst 3650 is built on the advanced Cisco StackWise-160, and takes advantage of the Cisco Unified Access Data Plane (UADP) application-specific integrated circuit (ASIC). This switch can enable uniform wired-wireless policy enforcement, application visibility, flexibility, application optimization, and superior resiliency. The Cisco Catalyst 3650 series switch supports full IEEE 802.3at Power over Ethernet Plus (PoE+), and offers modular and field-replaceable redundant fans and power supplies. It can help you increase wireless productivity and reduce your TCO.

## Main features

Product Description	Cisco Catalyst 3650-48FS-S - switch - 48 ports - Managed - rack-mountable
Device Type	Switch - 48 ports - L3 - Managed - stackable
Enclosure Type	Rack-mountable 1U
Subtype	Gigabit Ethernet
Ports	48 x 10/100/1000 (PoE+) + 4 x SFP
Power Over Ethernet (PoE)	PoE+
PoE Budget	775 W
Performance	Switching capacity: 176 Gbps   Forwarding performance: 130.95 Mpps
Capacity	IPv4 routes: 24000   NetFlow entries: 48000   Virtual interfaces (VLANs): 4094   Switched virtual interfaces (SVIs): 1000
MAC Address Table Size	32000 entries
Jumbo Frame Support	9198 bytes
Routing Protocol	RIP-1, RIP-2, EIGRP, static IP routing, RIPng
Remote Management Protocol	SNMP 1, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, SNMP 2c, SSH, CLI
Features	ARP support, trunking, VLAN support, IGMP snooping, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, DHCP snooping, Port Aggregation Protocol (PAgP) support, Access Control List (ACL) support, Quality of Service (QoS), RADIUS support, MLD snooping, Dynamic ARP Inspection (DAI), EIGRP Stub Routing, Uni-Directional Link Detection (UDLD), Rapid Per-VLAN Spanning Tree Plus (PVRST+), Link Aggregation Control Protocol (LACP), Remote Switch Port Analyzer (RSPAN), Energy Efficient Ethernet, Flexible NetFlow (FNF)

Compliant Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.1ab (LLDP), IEEE 802.3at
Power	AC 120/230 V (50/60 Hz)
Power Redundancy	Optional
Dimensions (WxDxH)	44.5 cm x 48.6 cm x 4.4 cm
Weight	7.8 kg

## Extended details

General	
Device Type	Switch - 48 ports - L3 - Managed - stackable
Enclosure Type	Desktop, rack-mountable 1U
Subtype	Gigabit Ethernet
Ports	48 x 10/100/1000 (PoE+) + 4 x SFP
Power Over Ethernet (PoE)	PoE+
PoE Budget	775 W
Performance	Switching capacity: 176 Gbps   Forwarding performance: 130.95 Mpps
Capacity	IPv4 routes: 24000   NetFlow entries: 48000   Virtual interfaces (VLANs): 4094   Switched virtual interfaces (SVIs): 1000
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Routing Protocol	RIP-1, RIP-2, EIGRP, static IP routing, RIPng
Remote Management Protocol	SNMP 1, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, SNMP 2c, SSH, CLI
Authentication Method	Secure Shell (SSH), RADIUS, TACACS+
Features	ARP support, trunking, VLAN support, IGMP snooping, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, DHCP snooping, Port Aggregation Protocol (PAgP) support, Access Control List (ACL) support, Quality of Service (QoS), RADIUS support, MLD snooping, Dynamic ARP Inspection (DAI), EIGRP Stub Routing, Uni-Directional Link Detection (UDLD), Rapid Per-VLAN Spanning Tree Plus (PVRST+), Link Aggregation Control Protocol (LACP), Remote Switch Port Analyzer (RSPAN), Energy Efficient Ethernet, Flexible NetFlow (FNF)
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RAM	4 GB
Flash Memory	2 GB
Status Indicators	Port transmission speed, port duplex mode, system, active, status, PoE
Expansion / Connectivity	
Interfaces	48 x 1000Base-T RJ-45 PoE+ - 30 W   1 x USB Type A   1 x serial (console) RJ-45 management   1 x management (Gigabit LAN) RJ-45 management   1 x management (mini-USB) Type B management   4 x 1000Base-X SFP uplink
Expansion Slots	1 (total) / 1 (free) x Stacking Module

<b>Power</b>	
Power Device	Internal power supply - hot-plug
Installed Qty	1 (installed) / 2 (max)
Power Redundancy	Optional
Power Redundancy Scheme	1+1 (with optional power supply)
Power Provided	1025 Watt
Voltage Required	AC 120/230 V (50/60 Hz)
<b>Miscellaneous</b>	
Rack Mounting Kit	Included
MTBF	383,760 hours
Compliant Standards	CISPR 22 Class A, GOST, BSMI CNS 13438 Class A, CISPR 24, EN 61000-3-2, NOM, EN 61000-3-3, EN55024, EN55022 Class A, ICES-003 Class A, RoHS, UL 60950-1 Second Edition, KCC, FCC Part 15 A, ISO 7779, CSA C22.2 No. 60950-1 Second Edition, EN 60950-1 Second Edition, IEC 60950-1 Second Edition, VCCI Class A, KN24, KN22 Class A
<b>Software / System Requirements</b>	
Software Included	Cisco IOS IP Base
<b>Dimensions &amp; Weight</b>	
Width	44.5 cm
Depth	48.6 cm
Height	4.4 cm
Weight	7.8 kg
<b>Manufacturer Warranty</b>	
Service & Support	Limited warranty - replacement - lifetime - response time: next business day   Technical support - phone consulting - 90 days
<b>Environmental Parameters</b>	
Min Operating Temperature	-5 °C
Max Operating Temperature	45 °C
Humidity Range Operating	5 - 96% (non-condensing)
Min Storage Temperature	-40 °C
Max Storage Temperature	70 °C

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