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Overview

Switch Cisco WS-C3650-48FD-L is the next generation of independent access devices and stackable businesses, provide basic background contact with enough cable and not on a single platform.

Quick Specification

Product Code	WS-C3650-48FD-L
Enclosure Type	Rack-mountable – 1U
Feature Set	LAN base
Uplink Interfaces	4 x 1G SFP uplinks
Ports	48 x 10/100/1000 Ethernet ports
Maximum stacking number	9
Stack bandwidth	160 Gpbs
Forwarding Bandwidth	77.37Mpps
Switching Capacity	176 Gbps
RAM	4 G
Flash Memory	2G
Dimensions	44.5 cm x 44.8 cm x 4.4 cm
Package Weight	17.49 Kg



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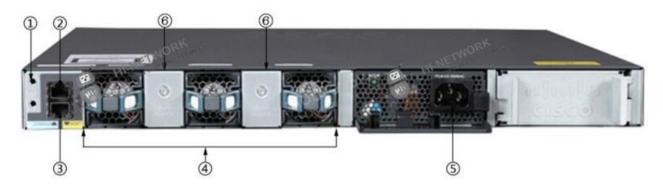
Product Details:

The Front Panel:



①	Mode button
2	Status LEDs
3	USB mini-Type B (console) port
4	USB Type A storage port
6	48 x 10/100/1000 Ports
6	Uplink ports

The Back Panel:



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



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3	MGMT (RJ-45 10/100/1000 management port)
④	Fan module
6	Power Supply modules
6	Stacking modules

Accessories For C3650:

Modules and Cables:

Part number	Description
C3650-STACK-KIT	Cisco Catalyst 3650 Stack Module Spare
L-C3650-48-L-S=	C3650-48 LAN Base to IP Base Electronic RTU License
L-C3650-48-L-E=	C3650-48 LAN Base to IP Services Electronic RTU License
PWR-C2-1025WAC=	1025W AC Config 2 Secondary Power Supply
CAB-CONSOLE-RJ45	Console Cable 6ft with RJ45 and DB9F
CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B

Compare To Similar Items:

Models	WS-C3650-48FD-L	WS-C3650-48PD-L
Feature Set	LAN Base	LAN Base
Uplink Interfaces	2 x 10G SFP+ OR 4 x 1G SFP uplinks	2 x 10G SFP+ OR 4 x 1G SFP uplinks
Ports	48 x 10/100/1000 POE+ Ethernet ports	48 x 10/100/1000 POE+ Ethernet ports
Available PoE Power	775W	390W
StackWise-160	Optional	Optional

Get more information:

Do you have any question about WS-C3650-48FD-L?

Contact us now via e-mail: info@hi-network.com

Specific Data Sheet:

Model	WS-C3650-48FD-L
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Boolowse type Rack - convanisher — 10 Perrs 48 x 10/100/1000 (POE) y 2 x 106/347P Phorent management interface Phorent management print RL-45 connections, 4-poir Carl-5 (ITP cabling Management conside poir, RL-45 to DB9 cable for PC connections Available Poli Power 775W Switching Cupacity 170 Gbps. Maximum stacking number 9 Stark Bandwidth 160 Gbps Forwarding Performance 104.16 Mpps PNF entric Disabled (IP base Recene required) Maximum VLANs IDs 255 Maximum VLANs IDs 256 Minitione CPU Multicore CPU RAM 4 G Flait Maximum VLANs (IDs) 2 G Number of wireless clients per switch-vasek 1000 Total number of wireless clients per switch-vasek 1000 Total number of WLANs (Ip reswitch) Supported Airmert AP series 2 300, 3001, 3001, 2001, 1001, 1140, 11640 Wireless bandwidth par switch Accessory & Rack Motole Kits (1)ACC KETT FL accessory bit (2)MACK KETT IL Rack mount kit (3)MT KETT IL Rack with 10 na hough (4)MT KETT IL Rack with 10 natacking cable with a 0.5 m length (5)MT KETT IL Rack with 10 natacking cable with a 0.5 m length (5)MT KETT IL Rack with 10 natacking cable with a 0.5 m length (5)MT KETT IL Rack with 10 natacking cable with a 0.5 m length (5)MT KETT IL Rack with 10 natacking cable with a 0.5 m length (6)MT KETT IL Rack with 10 natacking cable with a 0.5 m length (6)MT KETT IL Rack with 10 natacking cable with a 0.5 m length (6)MT KETT IL Rack with 10 natacking cable with a		
District management Interface District management poet RJ-45 connections Available Puli Prover 775W	Enclosure type	Rack-mountable – 1U
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Available Fole Fower Switching Capacity 176 Glyps Maximum stacking number 9 Stack Bandwidth 180 Glyps Forwarding Performance 104,16Mpps File entries Disabled (IP base license required) Maximum VLANs IDs 225 Maximum VLANs IDs 226 CPU Multicore CPU RAM 4 G Flash Memory 2 G Number of AP per switch/stack 50 Number of AP per switch/stack 1000 Total number of WILANs per switch Wireless bandwidth per switch Supported Aircore AP series 2700, 3600, 3500, 3600, 2600, 1600, 120, 1140, 1040 Console ports USB (Type-B), Ethernet (RJ-45) Expansion Slot(s) power redundant slot (1)ACC-KIT-TI: Accessory kit and brackets for four-point mounting (1)C3650-STACK-KIT-TI: Rack mount bit (3)STACK-XT-18. Stack Medule (2)STACK-XT-18. Stack Wield of Stacking cable with a 0.5 in length (3)STACK-XT-18. Stack Wield FOWER C2-102SWAC Power Redundancy Voltage range (Auto) Power Redundancy Voltage range (Auto) Power Redundancy Voltage range (Auto) Power Communiption of standalume (in Watsc) 109-14 inaches (44.5 cm) 19-125 Inches (44.5 cm)	Network management Interface	
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Flash Memory 2 G Number of AP per switch/stack 50 Number of WLANs per switch 64 Wireless bandwidth per switch 64 Wireless bandwidth per switch 5700, 3600, 3500, 2600, 1600, 1260, 1140, 1040 Console ports USB (Type-B), Ethernet (RJ-45) Expansion Slot(s) Dower redundant slot (1)ACC-KIT-T1: Accessory kit (2)RACK-KIT-T1: Each mount kit (3)APT-KIT-T1: Each mount kit (3)APT-KIT-T1: Each mount kit (3)APT-KIT-T1: Each mount kit (3)APT-KIT-T1: Each mount kit (3)AFT-KIT-Stack-Wise-160 stacking cable with a 0.5 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 1.0 m length (5)STACK-T2-1M: StackWise-160 stacking cable with a 0.5 m length (6)STACK-T2-1M: StackWise-160 stacking cable with a 0.5 m length (7)STACK-T2-1M: StackWise-160 stacking cable with a 0.5 m length (8)STACK-T2-1M: StackWise-160 stacking cable with a 0.5 m	CPU	Multicore CPU
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Wireless bandwidth per switch Supported Aironet AP series 3700, 3600, 3500, 2600, 1600, 1260, 1140, 1040 Console ports USB (Type-B), Ethernet (RJ-45) Expansion Stot(s) power redundant slot (1)ACC-KIT-T1: Accessory kit (2)RACK-KIT-T1: Eack mount kit (3)4PT-KIT-T1: Extension rails and brackets for four-point mounting (1)C3650-STACK-KIT: Stack Module (2)STACK-KIT: Stack Module (2)STACK-T2-50CM: StackWise-160 stacking cable with a 0.5 m length (3)STACK-T2-3M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length Power supply PWR-C2-1025WAC Power Device Power supply - redundant - plug-in module Power Redundancy optional Voltage range (Auto) 100V-240V Power Consumption of standalone (in Watts) 17.5 Inches (44.5 cm) Depth 19.125 Inches (48.6 cm)	Number of wireless clients per switch/stack	1000
Supported Aironet AP series 3700, 3600, 3500, 2600, 1600, 1260, 1140, 1040 Console ports USB (Type-B), Ethernet (RJ-45) Expansion Slot(s) power redundant slot (1)ACC-KIT-T1: Accessory kit (2)RACK-KIT-T1: Rack mount kit (3)4PT-KIT-T1: Extension rails and brackets for four-point mounting (1)C3650-STACK-KIT: Stack Module (2)STACK-T2-50CM: StackWise-160 stacking cable with a 0.5 m length (3)STACK-T2-1M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length Power supply PWR-C2-1025WAC Power Power Redundancy optional Voltage range (Auto) 100V-240V Power Consumption of standalone (in Watts) 119.125 Inches (44.5 cm) Depth	Total number of WLANs per switch	64
Console ports Expansion Slot(s) power redundant slot (1)ACC-KTT-T1: Accessory kit (2)RACK-KIT-T1: Rack mount kit (3)4PT-KIT-T1: Extension rails and brackets for four-point mounting (1)C3650-STACK-KIT: Stack Module (2)STACK-KIT: Stack Module (2)STACK-T2: 90CM: StackWise-160 stacking cable with a 0.5 m length (3)STACK-T2-1M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: Power leaded and the plug-in module Power Device Power supply redundant – plug-in module Power Redundancy optional Voltage range (Auto) 100V-240V Power Consumption of standalone (in Watts) 109.4 (max) Width 17.5 Inches (44.5 cm) Depth	Wireless bandwidth per switch	up to 40 Gbps
Expansion Slot(s) power redundant slot (1)ACC-KTT-T1: Accessory kit (2)RACK-KTT-T1: Rack mount kit (3)4PT-KTT-T1: Extension rails and brackets for four-point mounting (1)C3650-STACK-KTT: Stack Module (2)STACK-T2-50CM: StackWise-160 stacking cable with a 0.5 m length (3)STACK-T2-1M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length Power supply PWR-C2-1025WAC Power Device Power supply - redundant - plug-in module Power Redundancy optional Voltage range (Auto) 100V-240V Power Consumption of standalone (in Watts) 17.5 Inches (44.5 cm) Depth 19.125 Inches (48.6 cm)	Supported Aironet AP series	3700, 3600, 3500, 2600, 1600, 1260, 1140, 1040
Accessory & Rack Moubt Kits (1)ACC-KIT-T1: Accessory kit (2)RACK-KIT-T1: Rack mount kit (3)4PT-KIT-T1: Extension rails and brackets for four-point mounting (1)C3650-STACK-KIT: Stack Module (2)STACK-T2-50CM: StackWise-160 stacking cable with a 0.5 m length (3)STACK-T2-1M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length Power supply PWR-C2-1025WAC Power Device Power supply – redundant – plug-in module Power Redundancy optional Voltage range (Auto) 100V-240V Power Consumption of standalone (in Watts) 109.4 (max) Width 17.5 Inches (44.5 cm) Depth	Console ports	USB (Type-B), Ethernet (RJ-45)
Accessory & Rack Moubt Kits (2)RACK-KIT-T1: Rack mount kit (3)4PT-KIT-T1: Extension rails and brackets for four-point mounting (1)C3650-STACK-KIT: Stack Module (2)STACK-T2-50CM: StackWise-160 stacking cable with a 0.5 m length (3)STACK-T2-1M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length Power supply PWR-C2-1025WAC Power Device Power supply – redundant – plug-in module Power Redundancy optional Voltage range (Auto) 100V-240V Power Consumption of standalone (in Watts) 109.4 (max) Width 17.5 Inches (44.5 cm) Depth 19.125 Inches (48.6 cm)	Expansion Slot(s)	power redundant slot
(3)4PT-KIT-T1:Extension rails and brackets for four-point mounting (1)C3650-STACK-KIT: Stack Module (2)STACK-T2-50CM: StackWise-160 stacking cable with a 0.5 m length (3)STACK-T2-1M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length Power supply PWR-C2-1025WAC Power Device Power supply – redundant – plug-in module Power Redundancy optional Voltage range (Auto) 100V-240V Power Consumption of standalone (in Watts) 109.4 (max) Width 17.5 Inches (44.5 cm) Depth 19.125 Inches (48.6 cm)		(1)ACC-KIT-T1: Accessory kit
(1)C3650-STACK-KIT: Stack Module (2)STACK-T2-50CM: StackWise-160 stacking cable with a 0.5 m length (3)STACK-T2-1M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length Power supply PWR-C2-1025WAC Power Device Power supply – redundant – plug-in module Power Redundancy optional Voltage range (Auto) 100V-240V Power Consumption of standalone (in Watts) 109.4 (max) Width 17.5 Inches (44.5 cm) Depth 19.125 Inches (48.6 cm)	Accessory & Rack Moubt Kits	
Stacking module & cable (2)STACK-T2-50CM: StackWise-160 stacking cable with a 0.5 m length (3)STACK-T2-1M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length Power supply PWR-C2-1025WAC Power Device Power Redundancy optional Voltage range (Auto) Power Consumption of standalone (in Watts) 109.4 (max) Width 17.5 Inches (44.5 cm) Depth 19.125 Inches (48.6 cm)		
Stacking module & cable (3)STACK-T2-1M: StackWise-160 stacking cable with a 1.0 m length (4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length Power supply PWR-C2-1025WAC Power Device Power Redundancy optional Voltage range (Auto) 100V-240V Power Consumption of standalone (in Watts) 17.5 Inches (44.5 cm) Depth 19.125 Inches (48.6 cm)		
(4)STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length Power supply PWR-C2-1025WAC Power Device Power supply – redundant – plug-in module Power Redundancy optional Voltage range (Auto) 100V-240V Power Consumption of standalone (in Watts) 109.4 (max) Width 17.5 Inches (44.5 cm) Depth 19.125 Inches (48.6 cm)	Stacking module & cable	
Power Device Power supply – redundant – plug-in module Power Redundancy optional Voltage range (Auto) 100V-240V Power Consumption of standalone (in Watts) 109.4 (max) Width 17.5 Inches (44.5 cm) Depth 19.125 Inches (48.6 cm)		
Power Redundancy optional Voltage range (Auto) 100V-240V Power Consumption of standalone (in Watts) 109.4 (max) Width 17.5 Inches (44.5 cm) Depth 19.125 Inches (48.6 cm)	Power supply	PWR-C2-1025WAC
Voltage range (Auto) 100V-240V Power Consumption of standalone (in Watts) 109.4 (max) Width 17.5 Inches (44.5 cm) Depth 19.125 Inches (48.6 cm)	Power Device	Power supply – redundant – plug-in module
Power Consumption of standalone (in Watts) 109.4 (max) Width 17.5 Inches (44.5 cm) Depth 19.125 Inches (48.6 cm)	Power Redundancy	optional
Width 17.5 Inches (44.5 cm) Depth 19.125 Inches (48.6 cm)	Voltage range (Auto)	100V-240V
Depth 19.125 Inches (48.6 cm)	Power Consumption of standalone (in Watts)	109.4 (max)
	Width	17.5 Inches (44.5 cm)
Height 1.73 Inches (4.4 cm)	Depth	19.125 Inches (48.6 cm)
i de la companya de	Height	1.73 Inches (4.4 cm)



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Shipping Weight	17.49 Kg
Rack Mounting Kit	optional
MTBF in hours	383,760
	●IEEE 802.1D Spanning Tree Protoco
	• IEEE 802.1p CoS Prioritization
	• IEEE 802.1Q VLAN
	● IEEE 802.1s
	● IEEE 802.1w
	● IEEE 802.1X
	● IEEE 802.1X-Rev
	●IEEE 802.11
Compliant Standards	● IEEE 802.1ab (LLDP)
	● IEEE 802.3ad
	• IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports
	● IEEE 802.3 10BASE-T
	● IEEE 802.3u 100BASE-TX
	● IEEE 802.3ab 1000BASE-T
	● IEEE 802.3z 1000BASE-X
	• RMON I and II standards
	• SNMP v1, v2c, and v3
System software	IOS LAN Base (Upgradable)
EnergyWise license	ENERGY-MGMT, ENERGY-MGT-100-K9
	●L-LIC-CT3650-UPG: Primary upgrade license SKU for Cisco 3650 wireless controller (e-delivery) ●L-
	LIC-CTIOS-1A: 1 access point adder license for Cisco IOS Software based wireless controller (e-delivery
Access Point Licenses	•L-LIC-CTIOS-1A: 1 access point adder license for Cisco IOS Software based wireless controller (e-
Access Form Licenses	delivery)
	•LIC-CTIOS-1A: 1 access point adder license for the Cisco IOS Software based wireless controller (pape
	license)
	◆EEM ◆ RPS Support ◆ IP service-level agreements (SLAs) ◆ Advanced IP unicast routing protocols
	Jumbo Frames
	• 802.3ad LACP and PAgP • PVST/PVST+ • 802.1W/802.1S •Port Fast/Uplink Fast •Dynamic
Features	Trunking Protocol (DTP) ● port CoS Trust and Override
	• Trusted Boundary • ACL Classification • ingress Policing • Auto QoS • Per VLAN policies • 802.1p
	queues
	• Scheduling • Priority Queuing • Configure CoS Priority Queues • Configure CoS Priority Queues •
	Configure Queue Weights ● Configure Buffers and Thresholds ● Class & Policy Maps
	Modify CoS and DSCP Mapping Weighted Tail Drop
	server
	◆ DSCP transparency ◆ HSRP, VRRP, BLGP ◆ RIPv1, v2 EIGRP, PIM OSPF, OSPFv3, EIGRPv6,
	BGPv4, ISISv4
	■ VRF-lite ■ PIM-SM/DM, PIM sparse-dense mode, SSM ■ Flexible Netflow
	●Port security ● DHCP snooping ●Dynamic ARP inspection (DAI) ● IP source guard ●The Unicast
Advanced Network security	Reverse Path Forwarding (uRPF)
	● Bidirectional data support on a SPAN ● User authentication



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	Private VLAN	
	● Multidomain authentication ● MAC address notification	
	■ IGMP filtering	
	• Secure Shell (SSH) Protocol, Kerberos, and Simple Network Management Protocol Version 3	
	(SNMPv3)	
	● Port-based ACLs ● TrustSec SXP ● IEEE 802.1ae	
	 TACACS+ and RADIUS authentication ● Cisco standard and extended IP security router ACLs 	
	Bridge protocol data unit (BPDU) Guard	
	● Spanning Tree Root Guard (STRG) ● Wireless end-to-end security	
Technical Support and Services	◆ Cisco SMARTnet Service ◆ Cisco Smart Foundation Service	
recinical support and services	◆ Cisco SP Base Service ◆ Cisco Focused Technical Support Services	
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	23°F to 113°F (-5°C to +45°C)	
failure	23 F to 113 F (-3 C to +43 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	2007 - 11207 / 707 - 150	
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 16,400 Feet (Up to 5000m)	
Storage altitude	Up to 16,400 Feet (Up to 5000m)	
Operating relative humidity	5% to 96% noncondensing	
Storage relative humidity 5	5% to 96% noncondensing	

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