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## Overview

Cisco Catalyst WS-C3650-48TS-L is next generation of enterprise-level stackable access layer switch and integrates with 48 Gigabit Ethernet ports and 4 x 1G SFP uplink ports in LAN base feature set.

## Quick Specification

Product Code	WS-C3650-48TS-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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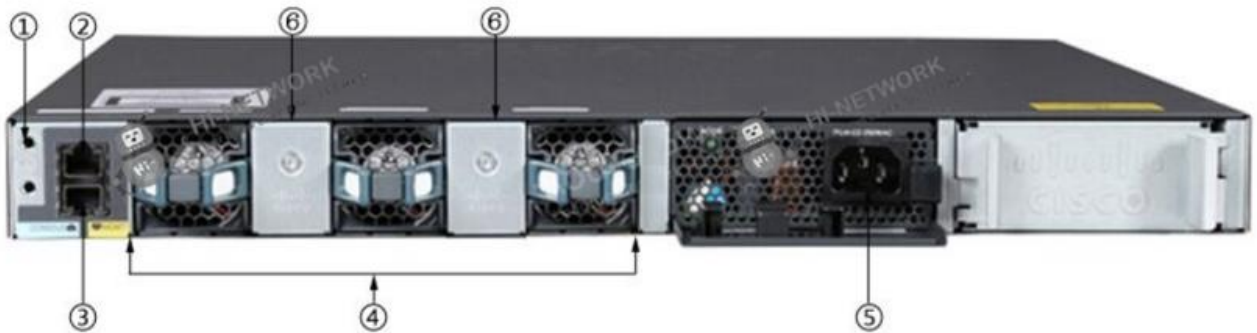
**Product Details:**

**The Front Panel:**



①	Mode button
②	Status LEDs
③	USB mini-Type B (console) port
④	USB Type A storage port
⑤	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
⑤	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-C2-250WAC=	250W AC Config 2 Secondary Power Supply
<a href="#">CAB-CONSOLE-RJ45</a>	Console Cable 6ft with RJ45 and DB9F
<a href="#">CAB-CONSOLE-USB</a>	Console Cable 6 ft with USB Type A and mini-B

### Compare to Similar Items

Models	<a href="#">WS-C3650-48TD-L</a>	<a href="#">WS-C3650-48TS-L</a>
Feature Set	LAN Base	LAN Base
Uplink Interfaces	2 x 10G SFP+ OR 4 x 1G SFP uplinks	4 x 1G SFP uplinks
Ports	48 * 10/100/1000 Ethernet ports	48 * 10/100/1000 Ethernet ports
StackWise-160	Optional	Optional

Get more information:

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

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

## Specific Data Sheet:

Model	WS-C3650-48TS-L
Enclosure type	Rack-mountable – 1U





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Ports	48 x 10/100/1000 + 4 x 1G SFP
Network management Interface	Ethernet management port: RJ-45 connectors, 4-pair Cat-5 UTP cabling Management console port: RJ-45-to-DB9 cable for PC connections
Available PoE Power	None
Switching Capacity	176 Gbps
Maximum stacking number	9
Stack Bandwidth	160 Gbps
Forwarding Performance	77.37Mpps
FNF entries	Disabled (IP base license required)
Maximum VLANs IDs	255
Maximum VLANs IDs	32K
CPU	Multicore CPU
RAM	4 G
Flash Memory	2 G
Number of AP per switch/stack	50
Number of wireless clients per switch/stack	1000
Total number of WLANs per switch	64
Wireless bandwidth per switch	up to 40 Gbps
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
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
Stacking module & cable	(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)	86.4 (max)
Width	17.5 Inches (44.5 cm)
Depth	17.625 Inches (44.8 cm)
Height	1.73 Inches (4.4 cm)
Shipping Weight	17.49 Kg





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Rack Mounting Kit	optional
MTBF in hours	527,580
Compliant Standards	<ul style="list-style-type: none"> <li>● IEEE 802.1D Spanning Tree Protocol</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 LAN Base (Upgradable)
EnergyWise license	ENERGY-MGMT, ENERGY-MGT-100-K9
Access Point Licenses	<ul style="list-style-type: none"> <li>● L-LIC-CT3650-UPG: Primary upgrade license SKU for Cisco 3650 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>● L-LIC-CTIOS-1A: 1 access point adder license for Cisco IOS Software based wireless controller (e-delivery)</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>● EEM ● RPS Support ● IP service-level agreements (SLAs) ● Advanced IP unicast routing protocols</li> <li>● Jumbo Frames ● VLANS ● Voice Vlan ● VTPv2 ● CDPv2 ● LLDP</li> <li>● 802.3ad LACP and PAgP ● PVST/PVST+ ● 802.1W/802.1S ● Port Fast/Uplink Fast ● Dynamic Trunking Protocol (DTP) ● port CoS Trust and Override</li> <li>● Trusted Boundary ● ACL Classification ● ingress Policing ● Auto QoS ● Per VLAN policies ● 802.1p queues</li> <li>● Scheduling ● Priority Queuing ● Configure CoS Priority Queues ● Configure CoS Priority Queues ● Configure Queue Weights ● Configure Buffers and Thresholds ● Class &amp; Policy Maps</li> <li>● Modify CoS and DSCP Mapping ● Weighted Tail Drop ● IGMPv1,v2,v3 and MLDv1, v2 ● DHCP server</li> <li>● DSCP transparency ● HSRP, VRRP, BGP ● RIPv1, v2 EIGRP, PIM OSPF, OSPFv3, EIGRPv6, BGPv4, ISISv4</li> <li>● VRF-lite ● PIM-SM/DM, PIM sparse-dense mode, SSM ● Flexible Netflow</li> </ul>
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> </ul>





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	<ul style="list-style-type: none"> <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 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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HangZhou Office Tel: +0086-571-86729517

Email: [info@hi-network.com](mailto:info@hi-network.com)

Skype: echo.hinetwork

WhatsApp Business: +8618057156223