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## Overview

The Cisco Catalyst 3650 Series Switch, with Cisco StackWise-160 Technology, can stack 9 switches and support up to 160 Gpbs stack bandwidth. The WS-C3650-24TS-L integrates with 24 Ethernet ports and 4 x 1G SFP uplink ports in LAN base feature set.

### Quick Specs

Figure 1 shows the appearance of the Cisco C3650-24TS-L switch.



Table 1 shows the Quick Specs.

<b>Product Code</b>	WS-C3650-24TS-L
<b>Enclosure Type</b>	Rack-mountable - 1U
<b>Feature Set</b>	LAN base
<b>Uplink Interfaces</b>	4 x 1G SFP
<b>Ports</b>	24 x 10/100/1000 Ethernet ports
<b>Maximum stacking number</b>	9
<b>Stack bandwidth</b>	160 Gpbs
<b>Forwarding Bandwidth</b>	41.66Mpps
<b>Switching Capacity</b>	88 Gbps
<b>RAM</b>	4 G
<b>Flash Memory</b>	2G
<b>Number of AP per switch/stack</b>	50
<b>Number of wireless clients per switch/stack</b>	1000
<b>Dimensions</b>	44.5 cm x 44.5 cm x 4.4 cm
<b>Package Weight</b>	17.49 Kg

### Product Details

Figure 2 shows the front panel of the Cisco C3650-24TS-L switch.



Note[]

- (1) Mode button
- (2) Status LEDs
- (3) USB mini-Type B (console) port
- (4) SB Type A storage port
- (5) 24 x 10/100/1000 Ports
- (6) Uplink ports

**Figure 3 shows the back panel of the Cisco C3650-24TS-L switch.**



Note[]

- (1) Ground connector
- (2) CONSOLE (RJ-45 console port)
- (3) MGMT (RJ-45 10/100/1000 management port)
- (4) Fan module
- (5) Power supply modules

**Figure 4 shows the StackWise-160 Kit.**

The Cisco Catalyst 3650 supports an optional stacking module that is based on the Cisco StackWise-160 technology which allows stacking up to 9 switches.



Figure 5 shows the uboxing view of WS-C3650-24TS-L.



## The Modules, Licenses and Accessories

Table 2 shows some modules, licenses and accessories of this switch.

Models	Description
<a href="#">C3650-STACK-KIT</a>	Cisco Catalyst 3650 Stack Module Spare
<a href="#">L-C3650-24-L-E=</a>	C3650-24 LAN Base to IP Services Electronic RTU License
<a href="#">L-C3650-24-L-S=</a>	C3650-24 LAN Base to IP Base Electronic RTU License
<a href="#">PWR-C2-250WAC=</a>	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

## Get more information

Do you have any question about the Cisco C3650-24TS-L switch?

Contact us now via [Live Chat](#) or [sales@router-switch.com](mailto:sales@router-switch.com).

## Specification

<b>WS-C3650-24TS-L Specification</b>	
Model info:	WS-C3650-24TS-L
Enclosure type	Rack-mountable - 1U
Ports	24 x 10/100/1000 + 4 x 1G SFP
Network management Interface	<ul style="list-style-type: none"><li>● Ethernet management port: RJ-45 connectors, 4-pair Cat-5 UTP cabling</li><li>● Management console port: RJ-45-to-DB9 cable for PC connections</li></ul>
Available PoE Power	None
Switching Capacity	88Gbps
Maximum stacking number	9
Stack Bandwidth	160Gbps
Forwarding Performance	41.66Mpps
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
<b>Wireless</b>	
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 20Gbps
Supported Aironet AP series	3700, 3600, 3500, 2600, 1600, 1260, 1140, 1040
<b>Expansion / Connectivity</b>	
Console ports	USB (Type-B), Ethernet (RJ-45)
Expansion Slot(s)	power redundant slot
Accessory & Rack Moubt Kits	<ul style="list-style-type: none"><li>●ACC-KIT-T1: Accessory kit</li><li>●RACK-KIT-T1: Rack mount kit</li><li>●4PT-KIT-T1:Extension rails and brackets for four-point mounting</li></ul>

Stacking module & cable	<ul style="list-style-type: none"> <li>●C3650-STACK-KIT: Stack Module</li> <li>●STACK-T2-50CM: StackWise-160 stacking cable with a 0.5 m length</li> <li>●STACK-T2-1M: StackWise-160 stacking cable with a 1.0 m length</li> <li>●STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length</li> </ul>
Power supply	PWR-C2-640WAC
Power Device	Power supply - redundant - plug-in module
Power Redundancy	optional
Voltage range (Auto)	100V-240V
Power Consumption of standalone (in Watts)	57.1 (max)
<b>Miscellaneous</b>	
Width	17.5 Inches (44.5 cm)
Depth	17.5 Inches (44.5 cm)
Height	1.73 Inches (4.4 cm)
Shipping Weight	17.49 Kg
Rack Mounting Kit	optional
MTBF in hours	661,800
Compliant Standards	<ul style="list-style-type: none"> <li>●IEEE 802.1D Spanning Tree Protoco</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>
<b>System software / license</b>	
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 ● 802.3ad LACP and PAgP ● PVST/PVST+</li> <li>● 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</li> <li>● 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, IS-ISv4</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> <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>

Management	<ul style="list-style-type: none"> <li>●BRIDGE-MIB ●CISCO-AUTH-FRAMEWORK-MIB</li> <li>●CISCO-BGP4-MIB, BGP4-MIB ●CISCO-BRIDGE-EXT-MIB</li> <li>●CISCO-BULK-FILE-MIB ●CISCO-CABLE-DIAG-MIB</li> <li>●CISCO-CALLHOME-MIB ●CISCO-CEF-MIB</li> <li>●CISCO-CIRCUIT-INTERFACE-MIB</li> <li>●CISCO-ENTITY-VENDORTYPE-OID-MIB</li> <li>●CISCO-CONTEXT-MAPPING-MIB</li> <li>●CISCO-DEVICE-LOCATION-MIB ●CISCO-DHCP-SNOOPING-MIB</li> <li>●CISCO-EIGRP-MIB</li> <li>●CISCO-EMBEDDED-EVENT-MGR-MIB</li> <li>●CISCO-ENTITY-FRU-CONTROL-MIB ●CISCO-ENTITY-SENSOR-MIB</li> <li>●ENTITY-MIB ●CISCO-ERR-DISABLE-MIB</li> <li>●CISCO-CONFIG-COPY-MIB ●CISCO-FLOW-MONITOR-MIB</li> <li>●CISCO-FTP-CLIENT-MIB ●CISCO-HSRP-EXT-MIB</li> <li>●CISCO-HSRP-MIB ●CISCO-IETF-ISIS-MIB</li> <li>●CISCO-IF-EXTENSION-MIB ●CISCO-IGMP-FILTER-MIB</li> <li>●CISCO-CONFIG-MAN-MIB ●CISCO-IP-CBR-METRICS-MIB</li> <li>●CISCO-IPMROUTE-MIB ●CISCO-IP-STAT-MIB</li> <li>●CISCO-IP-URPF-MIB ●CISCO-L2L3-INTERFACE-CONFIG-MIB</li> <li>●CISCO-LAG-MIB ●CISCO-LICENSE-MGMT-MIB</li> <li>●CISCO-MAC-AUTH-BYPASS-MIB ●CISCO-MAC-NOTIFICATION-MIB</li> <li>●CISCO-MDI-METRICS-MIB ●CISCO-FLASH-MIB ●CISCO-OSPF-MIB</li> <li>●CISCO-OSPF-TRAP-MIB ●CISCO-PAE-MIB ●CISCO-PAGP-MIB</li> <li>●CISCO-PIM-MIB ●CISCO-PING-MIB ●CISCO-PORT-QOS-MIB</li> <li>●CISCO-PORT-SECURITY-MIB●CISCO-PORT-STORM-CONTROL-MIB</li> <li>●CISCO-POWER-ETHERNET-EXT-MIB ●CISCO-PRIVATE-VLAN-MIB</li> <li>●CISCO-PROCESS-MIB ●CISCO-PRODUCTS-MIB●CISCO-RF-MIB</li> <li>●CISCO-RTP-METRICS-MIB ●CISCO-RTTMON-MIB</li> <li>●CISCO-SMART-INSTALL-MIB</li> <li>CISCO-SNMP-TARGET-EXT-MIB ●CISCO-STACKMAKER-MIB</li> <li>●CISCO-MEMORY-POOL-MIB ●CISCO-STP-EXTENSIONS-MIB</li> <li>●CISCO-SYSLOG-MIB ●CISCO-TCP-MIB ●CISCO-UDLD-MIB</li> <li>●CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB ●CISCO-VLAN-MEMBERSHIP-MIB ●CISCO-VTP-MIB ●EtherLike-MIB</li> <li>●HC-RMON-MIB ●IEEE8021-PAE-MIB ●IEEE8023-LAG-MIB</li> <li>●IF-MIB ●IGMP-MIB ●IGMP-STD-MIB ●IP-FORWARD-MIB</li> <li>●IP-MIB ●IPMROUTE-STD-MIB ●LLDP-EXT-MED-MIB</li> <li>●LLDP-MIB ●NOTIFICATION-LOG-MIB</li> <li>●OLD-CISCO-MEMORY-MIB ●CISCO-CDP-MIB</li> <li>●POWER-ETHERNET-MIB ●RMON2-MIB</li> <li>●RMON-MIB ●SNMP-COMMUNITY-MIB ●SNMP-FRAMEWORK-MIB</li> <li>●SNMP-MPD-MIB ●SNMP-NOTIFICATION-MIB ●SNMP-PROXY-MIB</li> <li>●SNMP-TARGET-MIB ●SNMP-USM-MIB ●SNMPv2-MIB</li> <li>●SNMP-VIEW-BASED-ACM-MIB ●TCP-MIB ●UDP-MIB</li> <li>●CISCO-IMAGE-MIB ●CISCO-STACKWISE-MIB</li> <li>●AIRESMACE-WIRELESS-MIB ●CISCO-LWAPP-IDS-MIB</li> <li>●CISCO-LWAPP-AP-MIB ●CISCO-LWAPP-CCX-RM-MIB</li> <li>●CISCO-LWAPP-CLIENT-ROAMING-MIB</li> <li>●CISCO-LWAPP-DOT11-CCX-CLIENT-DIAG-MIB</li> <li>●CISCO-LWAPP-DOT11-CCX-CLIENT-MIB</li> <li>●CISCO-LWAPP-DOT11-CLIENT-CCX-REPORTS-MIB</li> <li>●CISCO-LWAPP-DOT11-CLIENT-MIB ●CISCO-LWAPP-DOT11-MIB</li> <li>●CISCO-LWAPP-DOWNLOAD-MIB ●CISCO-LWAPP-LINKTEST-MIB</li> <li>●CISCO-LWAPP-MFP-MIB ●CISCO-LWAPP-MOBILITY-EXT-MIB</li> <li>●CISCO-LWAPP-QOS-MIB ●CISCO-LWAPP-REAP-MIB</li> <li>●CISCO-LWAPP-ROGUE-MIB ●CISCO-LWAPP-RRM-MIB</li> <li>●CISCO-LWAPP-SI-MIB ●CISCO-LWAPP-TSM-MIB</li> <li>●CISCO-LWAPP-WLAN-MIB ●CISCO-LWAPP-WLAN-SECURITY-MIB</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>
<b>Environmental Ranges</b>	
<b>With AC power supply Operating environment and altitude</b>	
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)
<b>With DC power supply Operating environment and altitude (NEBS)</b>	
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°C)
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% to 96% noncondensing
Short-term exception at sealevel with single fan failure	23°F to 113°F
Storage environment	-40°F to 160°F

## Download Resource

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 [Cisco's New Switch Selection Decision 2018](#)

### Support and Resources

 [Cisco Switch Catalyst 3650 Series Datasheet](#)

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 [Guide to Upgrade Cisco Access and Backbone Switch](#)

 [Selecting Cisco Switches-Campus, Branch, Digital Building](#)

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