

WS-C3650-24TS-L

Datasheet



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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.

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

Product Details

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



Note#

- | | |
|-----------------------------------|---------------------------|
| (1)Mode button | (4)SB Type A storage port |
| (2)Status LEDs | (5)24 x 10/100/1000 Ports |
| (3)USB mini-Type B (console) port | (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
C3650-STACK-KIT	Cisco Catalyst 3650 Stack Module Spare
L-C3650-24-L-E=	C3650-24 LAN Base to IP Services Electronic RTU License
L-C3650-24-L-S=	C3650-24 LAN Base to IP Base Electronic RTU License
PWR-C2-250WAC=	250W 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

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Specification

WS-C3650-24TS-L Specification	
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">Ethernet management port: RJ-45 connectors, 4-pair Cat-5 UTP cablingManagement console port: RJ-45-to-DB9 cable for PC connections
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
Wireless	
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
Expansion / Connectivity	
Console ports	USB (Type-B), Ethernet (RJ-45)
Expansion Slot(s)	power redundant slot
Accessory & Rack Moubt Kits	<ul style="list-style-type: none">ACC-KIT-T1: Accessory kitRACK-KIT-T1: Rack mount kit4PT-KIT-T1:Extension rails and brackets for four-point mounting

Stacking module & cable	<ul style="list-style-type: none"> • C3650-STACK-KIT: Stack Module • STACK-T2-50CM: StackWise-160 stacking cable with a 0.5 m length • STACK-T2-1M: StackWise-160 stacking cable with a 1.0 m length • STACK-T2-3M: StackWise-160 stacking cable with a 3.0 m length
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)
Miscellaneous	
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"> • IEEE 802.1D Spanning Tree Protocol • 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 • 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 / license	
System software	IOS LAN Base (Upgradable)
EnergyWise license	ENERGY-MGMT, ENERGY-MGT-100-K9
Access Point Licenses	<ul style="list-style-type: none"> • 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) • L-LIC-CTIOS-1A: 1 access point adder license for Cisco IOS Software based wireless controller (e-delivery) • LIC-CTIOS-1A: 1 access point adder license for the Cisco IOS Software based wireless controller (paper license)

features	<ul style="list-style-type: none"> •EEM • RPS Support • IP service-level agreements (SLAs) • Advanced IP unicast routing protocols •Jumbo Frames • VLANs •Voice Vlan •VTPv2 •CDPv2 •LLDP • 802.3ad LACP and PAgP • PVST/PVST+ •802.1W/802.1S •Port Fast/Uplink Fast •Dynamic 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 • IGMPv1,v2,v3 and MLDv1, v2 • DHCP server •DSCP transparency • HSRP, VRRP, BGP • RIPv1, v2 EIGRP, PIM OSPF, OSPFv3, EIGRPv6, BGPv4, IS-ISv4 • VRF-lite • PIM-SM/DM, PIM sparse-dense mode, SSM • Flexible Netflow
Advanced Network security	<ul style="list-style-type: none"> •Port security • DHCP snooping •Dynamic ARP inspection (DAI) • IP source guard •The Unicast Reverse Path Forwarding (uRPF) • Bidirectional data support on a SPAN • User authentication • Private VLAN •Router and VLAN ACLs • complete identity and security • Multidomain authentication • MAC address notification • IGMP filtering • Cisco security VLAN ACL •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

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

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Selection Decision

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

Support and Resources

 [Cisco Switch Catalyst 3650 Series Datasheet](#)

Transition Guide

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