

WS-C3650-48FS-E

Datasheet

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Overview

WS-C3650-48FS-E integrates forty-eight Gigabit Ethernet POE+ ports and four fixed 1G SFP uplink ports in IP service feature set that enables advanced layer 3 routing performance with superior QoS capabilities.

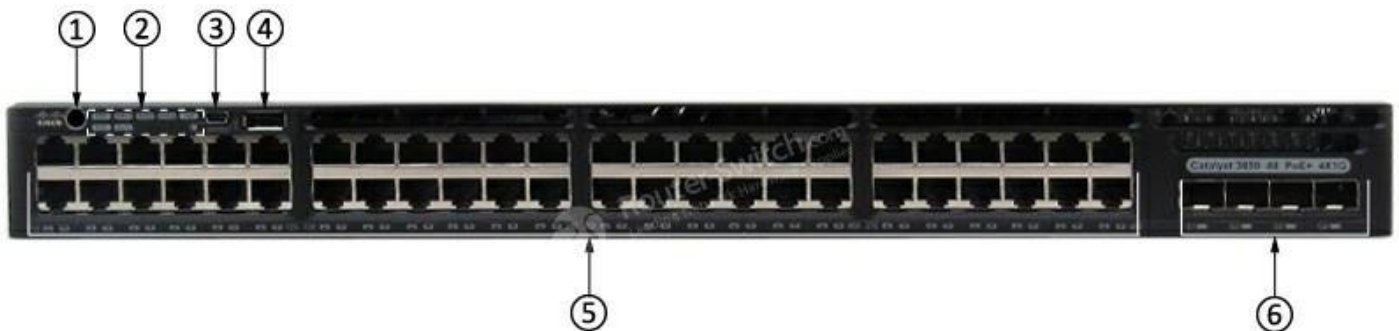
Quick Specs

Table 1 shows the Quick Specs.

Product Code	WS-C3650-48FS-E
Enclosure Type	Rack-mountable - 1U
Feature Set	IP Service
Uplink Interfaces	4 x 1G SFP
Ports	48 x 10/100/1000 (POE+)
Available PoE Power	775W
Maximum stacking number	9
Stack bandwidth	160 Gbps
Forwarding Performance	77.37Mpps
Switching Capacity	176 Gbps
RAM	4 G
Flash Memory	2 G
Dimensions	44.5 x 48.6 x 4.4 cm

Product Details

Figure 1 shows the front panel of WS-C3650-48FS-E.

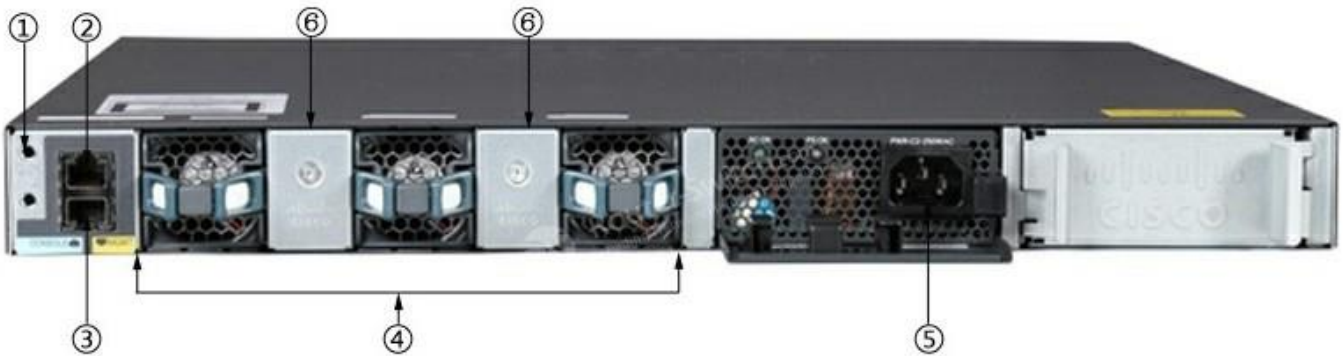


Note:

(1)	Mode button	(4)	USB Type A storage port
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(2)	Status LEDs	(5)	48 x 10/100/1000 PoE+ Ports
(3)	USB mini-Type B (console) port	(6)	Uplink ports

Figure 2 shows the back panel of WS-C3650-48FS-E.



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
(6)	Stacking modules

Figure 3 shows the StackWise-160 Kit.

For stacking purpose, stack modules are required; in addition, IP service feature set can only stack with other 3650 series in IP service feature set, in order to stack with LAN/IP base feature set, IP service feature set need to configure in LAN/IP base feature set (Stack module purchase separately) .



The Modules, Licenses and Accessories

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

Models	Description
C3650-STACK-KIT=	Cisco Catalyst 3650 Stack Module Spare

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

Table 3 shows the comparison between [WS-C3650-48FS-E](#) and [WS-C3650-48FS-L](#).

Models	WS-C3650-48FS-E	WS-C3650-48FS-L
Feature Set	IP Service	LAN Base
Uplink Interfaces	4 x 1G SFP uplinks	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	775W
StackWise-160	Optional	Optional

Get more information

Do you have any question about the Cisco C3650-48FS-E switch?

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Specification

WS-C3650-48FS-E Specification	
Enclosure type	Rack-mountable - 1U
Ports	48 x 10/100/1000 (POE+) + 4 x 1G SFP
Network management Interface	<ul style="list-style-type: none"> 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	775W
Switching Capacity	176Gbps
Maximum stacking number	9
Stack Bandwidth	160Gbps
Forwarding Performance	77.37Mpps
FNF entries	48000
Maximum VLANs IDs	4,094
MAC Address Table Size	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 40Gbps
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 Mount Kits	<ul style="list-style-type: none"> · ACC-KIT-T1: Accessory kit · RACK-KIT-T1: Rack mount kit · 4PT-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-C2-1025WAC
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)
Miscellaneous	
Width	17.5 Inches (44.5 cm)
Depth	19.125 Inches (48.6 cm)
Height	1.73 Inches (4.4 cm)
Shipping Weight	17.49 Kg
Rack Mounting Kit	optional
MTBF in hours	383,760
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 IP Service
EnergyWise license	ENERGY-MGMT, ENERGY-MGT-100-K9

<p>Access Point Licenses</p>	<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)
<p>Features</p>	<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
<p>Advanced Network security</p>	<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-IPROUTE-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-MIB · CISCO-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 · IPROUTE-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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