

WS-C3650-48PWS-S

Datasheet

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Overview

Cisco Catalyst WS-C3650-48PWS-S is the next generation enterprise-level standalone with stackable option switch with IP Base image. It offers 48 Gigabit Ethernet POE+ ports with 4 fixed 1G SFP uplink ports and provides fully convergence between wired and wireless capacity on a single platform. It offers 5 wireless access point licenses included to provide fully convergence between wired and wireless capacity on a single platform without purchasing wireless controller.

Quick Specs

Figure 1 shows the appearance of WS-C3650-48PWS-S.



Table 1 shows the Quick Specs.

| | |
|-------------------------|--------------------------------------|
| Product Code | WS-C3650-48PWS-S |
| Bundle | 5 wireless AP licenses |
| Enclosure Type | Rack-mountable - 1U |
| Feature Set | IP Base |
| Uplink Interfaces | 4 x 1G SFP uplinks |
| Ports | 48 x 10/100/1000 POE+ Ethernet ports |
| Available PoE Power | 390W |
| Maximum stacking number | 9 |
| Stack bandwidth | 160Gbps |
| Forwarding Performance | 77.37Mpps |
| Switching Capacity | 176Gbps |
| RAM | 4 GB |
| Flash Memory | 2 GB |
| Dimensions | 44.5 x 44.8 x 4.4 cm |

Product Details

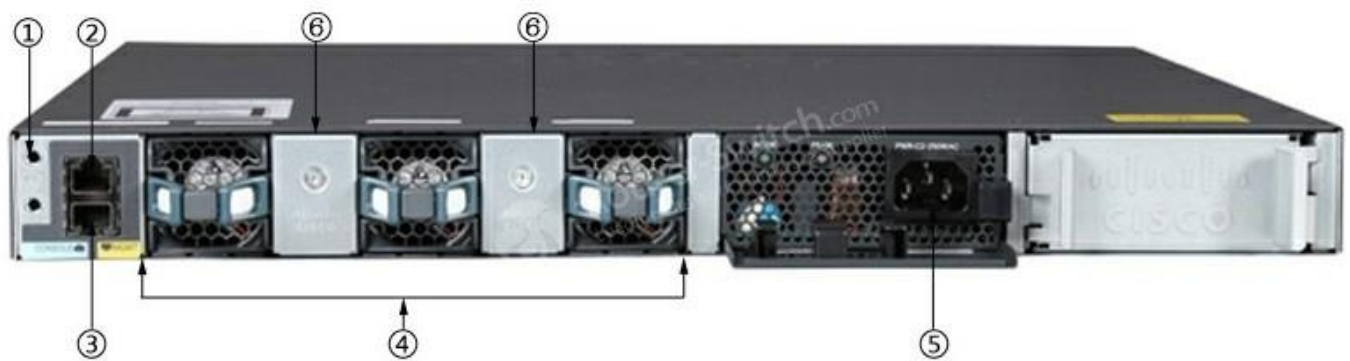
Figure 2 shows the front panel of WS-C3650-48PWS-S



Note:

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

Figure 3 shows the back panel of WS-C3650-48PWS-S.



Note#

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|-----|--|
| (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 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.



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 |
| L-C3650-48-S-E= | C3650-48 IP Base to IP Services Electronic RTU License |
| PWR-C2-1025WAC= | 1025W AC Config 2 Secondary Power Supply |
| PWR-C2-640WDC= | 640W DC 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-C3650-48PS-S and WS-C3650-48PWS-S.

| Models | WS-C3650-48PS-S | WS-C3650-48PWS-S |
|---------------------|--------------------------------------|--------------------------------------|
| Feature Set | IP Base | IP 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 | 390W | 390W |
| StackWise-160 | Optional | Optional |
| Bundle | None | 5 wireless AP licenses |

Get more information

Do you have any question about the Cisco C3650-48PWS-S switch?

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Specification

| WS-C3650-48PWS-S Specification | |
|--------------------------------|---------------------|
| Enclosure type | Rack-mountable - 1U |

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|---|--|
| 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 | 390W |
| 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 Moubt 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) | 99.5 (max) |
| Miscellaneous | |
| Width | 17.5 Inches (44.5 cm) |
| Depth | 17.625 Inches (44.8 cm) |

| | |
|----------------------------------|--|
| Height | 1.73 Inches (4.4 cm) |
| Weight | 16.75 Pounds (7.60Kg) |
| Rack Mounting Kit | optional |
| MTBF in hours | 383,760 |
| Compliant Standards | <ul style="list-style-type: none"> · 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 · 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 Base (Upgradable) |
| EnergyWise license | ENERGY-MGMT, ENERGY-MGT-100-K9 |
| Software license | <ul style="list-style-type: none"> · C3650-48-S-E: IP Base to IP Services RTU paper license · L-C3650-48-S-E: IP Base to IP Services RTU electronic license |
| Access Point Licenses | <ul style="list-style-type: none"> · Included 5 access point licenses · 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 |

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| Management | <div>• BRIDGE-MIB · CISCO-AUTH-FRAMEWORK-MIB</div> <div>• CISCO-BGP4-MIB, BGP4-MIB · CISCO-BRIDGE-EXT-MIB</div> <div>• CISCO-BULK-FILE-MIB · CISCO-CABLE-DIAG-MIB</div> <div>• CISCO-CALLHOME-MIB · CISCO-CEF-MIB</div> <div>• CISCO-CIRCUIT-INTERFACE-MIB</div> <div>• CISCO-ENTITY-VENDORTYPE-OID-MIB</div> <div>• CISCO-CONTEXT-MAPPING-MIB</div> <div>• CISCO-DEVICE-LOCATION-MIB · CISCO-DHCP-SNOOPING-MIB</div> <div>• CISCO-EIGRP-MIB</div> <div>• CISCO-EMBEDDED-EVENT-MGR-MIB</div> <div>• CISCO-ENTITY-FRU-CONTROL-MIB · CISCO-ENTITY-SENSOR-MIB</div> <div>• ENTITY-MIB · CISCO-ERR-DISABLE-MIB</div> <div>• CISCO-CONFIG-COPY-MIB · CISCO-FLOW-MONITOR-MIB</div> <div>• CISCO-FTP-CLIENT-MIB · CISCO-HSRP-EXT-MIB</div> <div>• CISCO-HSRP-MIB · CISCO-IETF-ISIS-MIB</div> <div>• CISCO-IF-EXTENSION-MIB · CISCO-IGMP-FILTER-MIB</div> <div>• CISCO-CONFIG-MAN-MIB · CISCO-IP-CBR-METRICS-MIB</div> <div>• CISCO-IPROUTE-MIB · CISCO-IP-STAT-MIB</div> <div>• CISCO-IP-URPF-MIB · CISCO-L2L3-INTERFACE-CONFIG-MIB</div> <div>• CISCO-LAG-MIB · CISCO-LICENSE-MGMT-MIB</div> <div>• CISCO-MAC-AUTH-BYPASS-MIB · CISCO-MAC-NOTIFICATION-MIB</div> <div>• CISCO-MDI-METRICS-MIB · CISCO-FLASH-MIB · CISCO-OSPF-MIB</div> <div>• CISCO-OSPF-TRAP-MIB · CISCO-PAE-MIB · CISCO-PAGP-MIB</div> <div>• CISCO-PIM-MIB · CISCO-PING-MIB · CISCO-PORT-QOS-MIB</div> <div>• CISCO-PORT-SECURITY-MIB · CISCO-PORT-STORM-CONTROL-MIB</div> <div>• CISCO-POWER-ETHERNET-EXT-MIB · CISCO-PRIVATE-VLAN-MIB</div> <div>• CISCO-PROCESS-MIB · CISCO-PRODUCTS-MIB · CISCO-RF-MIB</div> <div>• CISCO-RTP-METRICS-MIB · CISCO-RTTMON-MIB</div> <div>• CISCO-SMART-INSTALL-MIB</div> <div>• CISCO-SNMP-TARGET-EXT-MIB · CISCO-STACKMAKER-MIB</div> <div>• CISCO-MEMORY-POOL-MIB · CISCO-STP-EXTENSIONS-MIB</div> <div>• CISCO-SYSLOG-MIB · CISCO-TCP-MIB · CISCO-UDLDP-MIB</div> <div>• CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB · CISCO-VLAN-MEMBERSHIP-MIB</div> <div>• CISCO-VTP-MIB · EtherLike-MIB</div> <div>• HC-RMON-MIB · IEEE8021-PAE-MIB · IEEE8023-LAG-MIB</div> <div>• IF-MIB · IGMP-MIB · IGMP-STD-MIB · IP-FORWARD-MIB</div> <div>• IP-MIB · IPROUTE-STD-MIB · LLDP-EXT-MED-MIB</div> <div>• LLDP-MIB · NOTIFICATION-LOG-MIB</div> <div>• OLD-CISCO-MEMORY-MIB · CISCO-CDP-MIB</div> <div>• POWER-ETHERNET-MIB · RMON2-MIB</div> <div>• RMON-MIB · SNMP-COMMUNITY-MIB · SNMP-FRAMEWORK-MIB</div> <div>• SNMP-MPD-MIB · SNMP-NOTIFICATION-MIB · SNMP-PROXY-MIB</div> <div>• SNMP-TARGET-MIB · SNMP-USM-MIB · SNMPv2-MIB</div> <div>• SNMP-VIEW-BASED-ACM-MIB · TCP-MIB · UDP-MIB</div> <div>• CISCO-IMAGE-MIB · CISCO-STACKWISE-MIB</div> <div>• AIRESPLACE-WIRELESS-MIB · CISCO-LWAPP-IDS-MIB</div> <div>• CISCO-LWAPP-AP-MIB · CISCO-LWAPP-CCX-RM-MIB</div> <div>• CISCO-LWAPP-CLIENT-ROAMING-MIB</div> <div>• CISCO-LWAPP-DOT11-CCX-CLIENT-DIAG-MIB</div> <div>• CISCO-LWAPP-DOT11-CCX-CLIENT-MIB</div> <div>• CISCO-LWAPP-DOT11-CLIENT-CCX-REPORTS-MIB</div> <div>• CISCO-LWAPP-DOT11-CLIENT-MIB · CISCO-LWAPP-DOT11-MIB</div> <div>• CISCO-LWAPP-DOWNLOAD-MIB · CISCO-LWAPP-LINKTEST-MIB</div> <div>• CISCO-LWAPP-MFP-MIB · CISCO-LWAPP-MOBILITY-EXT-MIB</div> <div>• CISCO-LWAPP-QOS-MIB · CISCO-LWAPP-REAP-MIB</div> <div>• CISCO-LWAPP-ROGUE-MIB · CISCO-LWAPP-RRM-MIB</div> <div>• CISCO-LWAPP-SI-MIB · CISCO-LWAPP-TSM-MIB</div> <div>• CISCO-LWAPP-WLAN-MIB · CISCO-LWAPP-WLAN-SECURITY-MIB</div> |
| Technical Support and Services | <div>• Cisco SMARTnet Service · Cisco Smart Foundation Service · Cisco SP Base Service</div> <div>• Cisco Focused Technical Support Services</div> |
| 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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