

# WS-C3650-12X48UZ-E

## Datasheet



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## Overview

Stackable 12 100M/1G/2.5G/5G/10G Cisco UPOE™ downlink ports, 36 10/100/1000 Cisco UPOE™ downlink ports, two 40-Gigabit uplink QSFP+ ports, 1100-W power supply

## Specification

### WS-C3650-12X48UZ-E Specification

#### General

Device Type	Switch - 48 ports - L3 - managed - stackable
Enclosure Type	Desktop, rack-mountable 1U
Subtype	Gigabit Ethernet
Ports	36 x 10/100/1000 (UPOE) + 12 x 100/1000/2.5G/5G/10G (UPOE) + 2 x 40 Gigabit QSFP+ (uplink)
Power Over Ethernet (PoE)	UPOE
PoE Budget	660 W
Performance	Switching capacity: 472 Gbps   Forwarding performance: 351.19 Mpps   Stacking bandwidth: 160 Gbps
Capacity	IPv4 routes: 24000   Flexible NetFlow entries: 48000   Virtual interfaces (VLANs): 4094   Switched virtual interfaces (SVIs): 1000   IPv4 routes: 24000
MAC Address Table Size	32000 entries
Jumbo Frame Support	9198 bytes
Routing Protocol	BGP-4, IS-IS, RIP-1, RIP-2, PIM-SM, static IP routing, PIM-DM, EIGRP for IPv6, OSPFv3, PIM-SSM, policy-based routing (PBR), RIPng
Remote Management Protocol	SNMP 1, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, SNMP 2c, SSH, CLI
Authentication Method	Kerberos, Secure Shell (SSH), RADIUS, TACACS+
Features	Full duplex capability, layer 2 switching, DHCP support, auto-negotiation, ARP support, trunking, VLAN support, auto-uplink (auto MDI/MDI-X), IGMP snooping, Syslog support, IPv6 support, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, DHCP snooping, Dynamic Trunking Protocol (DTP) support, Port Aggregation Protocol (PAgP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), RADIUS support, Virtual Route Forwarding-Lite (VRF-Lite), MLD snooping, Dynamic ARP Inspection (DAI), Unicast Reverse Path Forwarding (URPF), Uni-Directional Link Detection (UDLD), Rapid Per-VLAN Spanning Tree Plus (PVRST+), Shaped Round Robin (SRR), LLDP support, Link Aggregation Control Protocol (LACP), MAC Address Notification, Remote Switch Port Analyzer (RSPAN), Hot Standby Router Protocol (HSRP) support, Energy Efficient Ethernet, Strict Priority Queuing (SPQ), Class of Service (CoS), Flexible NetFlow (FNF), Cisco StackWise-160 technology, DiffServ Code Point (DSCP) support
Compliant Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.1ab (LLDP), IEEE 802.3at

## WS-C3650-12X48UZ-E Specification

RAM	4 GB
Flash Memory	4 GB
Status Indicators	Port transmission speed, port duplex mode, system, active, status, PoE
<b>Expansion / Connectivity</b>	
Interfaces	36 x 1000Base-T RJ-45 UPOE - 60 W   1 x USB Type A   1 x serial (console) RJ-45 management   1 x management (Gigabit LAN) RJ-45 management   1 x management (mini-USB) Type B management   12 x 100/1000/2.5G/5G/10GBase-T RJ-45 UPOE - 60 W   4 x 40Gbit WAN QSFP+ uplink
Expansion Slots	1 (total) / 1 (free) x Stacking Module slot
<b>Power</b>	
Power Device	Internal power supply - hot-plug
Installed Qty	1 (installed) / 2 (max)
Power Redundancy	Optional
Power Redundancy Scheme	1+1 (with optional power supply)
Power Provided	1100 Watt
Voltage Required	AC 120/230 V (50/60 Hz)
<b>Miscellaneous</b>	
Rack Mounting Kit	Included
MTBF	203,190 hours
Compliant Standards	CISPR 22 Class A, GOST, BSMI CNS 13438 Class A, CISPR 24, EN 61000-3-2, NOM, EN 61000-3-3, EN55024, EN55022 Class A, ICES-003 Class A, RoHS, UL 60950-1 Second Edition, KCC, FCC Part 15 A, ISO 7779, CSA C22.2 No. 60950-1 Second Edition, EN 60950-1 Second Edition, IEC 60950-1 Second Edition, VCCI Class A, KN24, KN22 Class A
<b>Software / System Requirements</b>	
Software Included	Cisco IOS IP Services
<b>Dimensions &amp; Weight</b>	
Width	17.5 in
Depth	19.1 in
Height	1.7 in
Weight	17.81 lbs
<b>Manufacturer Warranty</b>	
Service & Support	Limited warranty - advance hardware replacement - lifetime - response time: 10 days
<b>Environmental Parameters</b>	

## WS-C3650-12X48UZ-E Specification

Min Operating Temperature	23 °F
Max Operating Temperature	113 °F
Humidity Range Operating	5 - 96% (non-condensing)
Min Storage Temperature	-40 °F
Max Storage Temperature	158 °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

 [Find the Right 3650 and 3850 Models](#)

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

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

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