

Cisco Catalyst 3650-12X48UR-L

Switch - L3 - Managed - 36 x 10/100/1000 (UPOE) + 12 x 100/1000/2.5G/5G/10G (UPOE) + 8 x 10 Gigabit SFP+ (uplink) - desktop - rack-mountable - UPOE (660 W)



Group	Network Equipment
Manufacturer	Cisco
Manufacturer item no.	WS-C3650-12X48UR-L
EAN/UPC	0882658865459

Description

Converge your wired and wireless network. Simplify operations, get the reliability you need, and deliver better mobile experiences to your employees and customers. With 3650 switches, your network is ready for the mobile devices and applications it needs to support.

Main features

Product Description	Cisco Catalyst 3650-12X48UR-L - switch - 48 ports - Managed - rack-mountable
Device Type	Switch - 48 ports - L3 - Managed - stackable
Enclosure Type	Rack-mountable 1U
Subtype	Gigabit Ethernet
Ports	36 x 10/100/1000 (UPOE) + 12 x 100/1000/2.5G/5G/10G (UPOE) + 8 x 10 Gigabit SFP+ (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 NetFlow entries: 24000 Virtual interfaces (VLANs): 4094 Switched virtual interfaces (SVIs): 1000
MAC Address Table Size	32000 entries
Jumbo Frame Support	9198 bytes
Routing Protocol	RIP-1, RIP-2, static IP routing, RIPng
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), Cisco StackWise Technology, 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), 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
Power	AC 120/230 V (50 - 60 Hz)
Power Redundancy	Optional
Dimensions (WxDxH)	44.5 cm x 48.6 cm x 4.4 cm
Weight	8.08 kg

Extended details

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) + 8 x 10 Gigabit SFP+ (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 NetFlow entries: 24000 Virtual interfaces (VLANs): 4094 Switched virtual interfaces (SVIs): 1000
MAC Address Table Size	32000 entries
Jumbo Frame Support	9198 bytes
Routing Protocol	RIP-1, RIP-2, static IP routing, RIPng
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), Cisco StackWise Technology, 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), DiffServ Code Point (DSCP) support
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RAM	4 GB
Flash Memory	4 GB
Status Indicators	Port transmission speed, port duplex mode, system, active, status, PoE
Expansion / Connectivity	

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 8 x 10GBase-X SFP+
Expansion Slots	1 (total) / 1 (free) x Stacking Module
Power	
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)
Miscellaneous	
Rack Mounting Kit	Included
MTBF	201,680 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, 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, EN 55022 Class A
Software / System Requirements	
Software Included	Cisco IOS LAN Base
Dimensions & Weight	
Width	44.5 cm
Depth	48.6 cm
Height	4.4 cm
Weight	8.08 kg
Manufacturer Warranty	
Service & Support	Limited warranty - replacement - lifetime - response time: next business day Technical support - phone consulting - 90 days
Environmental Parameters	
Min Operating Temperature	-5 °C
Max Operating Temperature	45 °C
Humidity Range Operating	5 - 96% (non-condensing)
Min Storage Temperature	-40 °C
Max Storage Temperature	70 °C

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