



UniFi Ubiquiti Networks User Guide

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Package Contents

 <p>UniFi Switch</p>	 <p>Power Cord</p>	 <p>Rack-Mount Brackets (Qty. 2)</p>
 <p>Bracket Screws (Qty. 8)</p>	 <p>Mounting Screws (Qty. 4)</p>	 <p>Cage Nuts (Qty. 4)</p>

Installation Requirements

- Phillips screwdriver (for rack- or wall-mounting)
 - Standard-sized, 19" wide rack with a minimum of 1U height available (for rack mounting)
 - Use compatible fiber SFP+ modules with the appropriate fiber optic cabling. For information about compatible fiber SFP+ modules, visit: community.ubnt.com/unifi
 - For indoor applications, use Category 6A (or above) UTP cabling approved for indoor use.
 - For outdoor applications, shielded Category 6A (or above) cabling should be used for all wired Ethernet connections and should be grounded through the AC ground of the power supply.
- We recommend that you protect your networks from harmful outdoor environments and destructive ESD events with industrial-grade, shielded Ethernet cable from Ubiquiti. For more details, visit: ui.com/toughcable

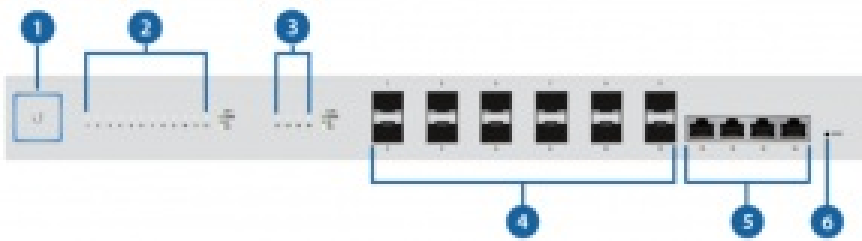


Note: Although the cabling can be located outdoors, the UniFi Switch itself should be housed inside a protective enclosure.

System Requirements

- Linux, Mac OS X, or Microsoft Windows 7/8/10
- Java Runtime Environment 1.6 (1.8 or newer recommended)
- Web Browser: Google Chrome (Other browsers may have limited functionality.)
- UniFi Controller software v5.4 or newer, available at: ui.com/download/unifi

Hardware Overview



1. System LED

[Click here](#) for detailed descriptions.

2. SFP+ Speed/Link/Act LED (Ports 1 – 12)

Off	No Link
Green	Solid: 1 Gbps Link Established Flashing: Activity
White	Solid: 10 Gbps Link Established Flashing: Activity

3. RJ45 Speed/Link/Act LED (Ports 13 – 16)

Off	No Link
Green	Solid: 1 Gbps Link Established Flashing: Activity
White	Solid: 10 Gbps Link Established Flashing: Activity

4. SFP+ (Ports 1 – 12)

Hot-swappable SFP+ ports support 1 Gbps and 10 Gbps connections.

5. RJ45 (Ports 13 – 16)

RJ45 ports support 1 Gbps and 10 Gbps Ethernet connections.

6. Reset Button

This button serves two functions for the UniFi Switch:

- Restart Press and release the Reset button quickly.
- Restore to Factory Default Settings Press and hold the Reset button for more than five seconds.

Console Port



7. Console Port

RJ45 serial console port for Command Line Interface (CLI) management. Use an RJ45-to-DB9, serial console cable, also known as a rollover cable, to connect the Console port to your computer. Then configure the following settings as needed:

- Baud rate 115200
- Stop bits 1
- Flow control NONE

8. DC Input

The 48/24VDC input can connect a redundant or stand-alone DC power source (not included) with minimum power: 56W, 57 to 20V.

Note: You can use the redundant DC power source as a hot spare; if the internal AC/DC power supply no longer provides power, the UniFi Switch will switch to the DC power source without interrupting its operation.

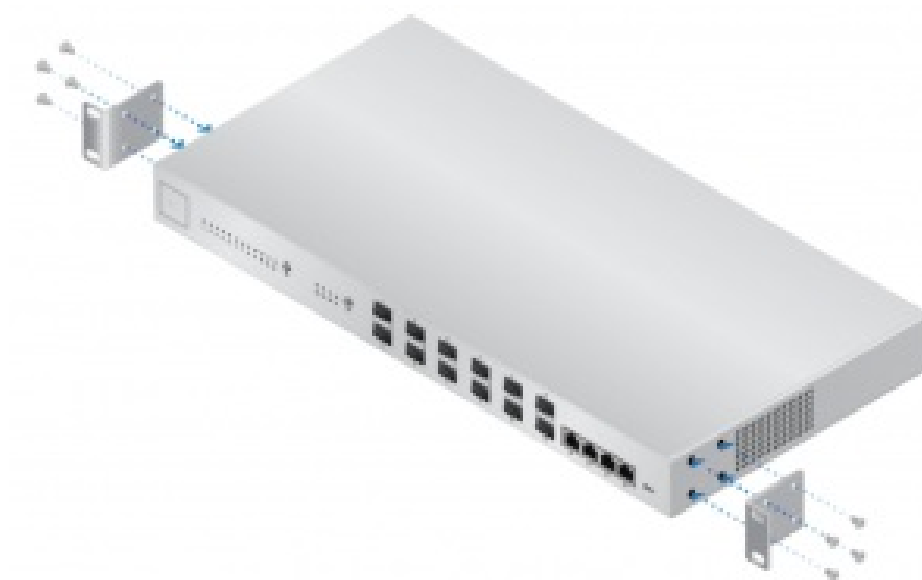
9. Power Port

Connect the included Power Cord to the Power port.

Hardware Installation

Mounting in a Rack (Optional)

1.



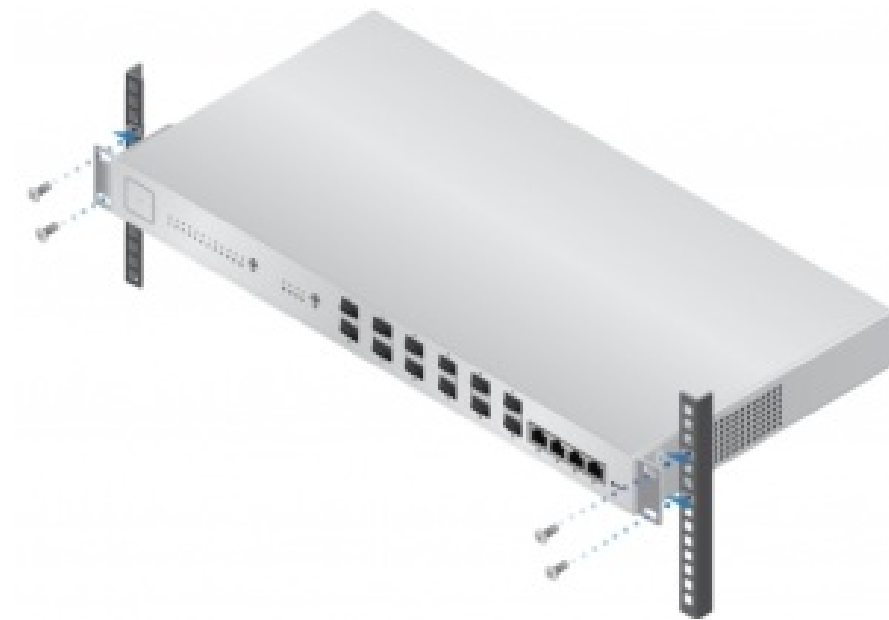
2.



3.



4.



Connecting Power

1.



2.



Connecting SFP+

1.



2.



3.



For information about compatible fiber SFP+ modules, visit: community.ubnt.com/unifi

Connecting RJ45

1.



2.



Software Installation

Download and install the latest version of the UniFi Controller software at ui.com/download/unifi and follow the on-screen instructions.



Note: If you already have UniFi Controller v5.4 or higher installed, go to the section, Adopting the UniFi Switch.

After you have installed the software and run the UniFi Installation Wizard, a login screen will appear for the UniFi Controller management interface. Enter the username and password that you created and click Sign In.

The image shows the UniFi Controller login interface. At the top is the UniFi logo. Below it are two input fields labeled 'Username' and 'Password'. Under the password field is a checkbox labeled 'Remember me' with a help icon. A large blue 'SIGN IN' button is centered below these fields. Below the button is a link that says 'FORGOT PASSWORD?'. At the bottom of the screen are two buttons: 'Download on the App Store' with the Apple logo and 'GET IT ON Google Play' with the Google Play logo.

You can manage your network and view network statistics using the UniFi Controller management interface.

To adopt the UniFi Switch, proceed to the section, Adopting the UniFi Switch.

For information on configuring and using the UniFi Controller software, refer to the User Guide on the website: ui.com/download/unifi

Adopting the UniFi Switch

- 1. From the UniFi Controller dashboard, click Devices in the left menu bar.



- 2. Locate the UniFi Switch in the list of devices under the Model column. Click Adopt.

ID	Device Name	Model	Status	IP Address	MAC Address	Serial Number	Adopt	Remove
001	UniFi Switch	US-16-XG	Adopted	192.168.1.1	00:0C:87:00:00:00	1234567890123456		
002	UniFi Switch	US-16-XG	Adopted	192.168.1.2	00:0C:87:00:00:01	1234567890123457		
003	UniFi Switch	US-16-XG	Adopted	192.168.1.3	00:0C:87:00:00:02	1234567890123458		
004	UniFi Switch	US-16-XG	Adopted	192.168.1.4	00:0C:87:00:00:03	1234567890123459		
005	UniFi Switch	US-16-XG	Adopted	192.168.1.5	00:0C:87:00:00:04	1234567890123460		
006	UniFi Switch	US-16-XG	Adopted	192.168.1.6	00:0C:87:00:00:05	1234567890123461		
007	UniFi Switch	US-16-XG	Adopted	192.168.1.7	00:0C:87:00:00:06	1234567890123462		
008	UniFi Switch	US-16-XG	Adopted	192.168.1.8	00:0C:87:00:00:07	1234567890123463		
009	UniFi Switch	US-16-XG	Adopted	192.168.1.9	00:0C:87:00:00:08	1234567890123464		
010	UniFi Switch	US-16-XG	Adopted	192.168.1.10	00:0C:87:00:00:09	1234567890123465		
011	UniFi Switch	US-16-XG	Adopted	192.168.1.11	00:0C:87:00:00:0A	1234567890123466		
012	UniFi Switch	US-16-XG	Adopted	192.168.1.12	00:0C:87:00:00:0B	1234567890123467		
013	UniFi Switch	US-16-XG	Adopted	192.168.1.13	00:0C:87:00:00:0C	1234567890123468		
014	UniFi Switch	US-16-XG	Adopted	192.168.1.14	00:0C:87:00:00:0D	1234567890123469		
015	UniFi Switch	US-16-XG	Adopted	192.168.1.15	00:0C:87:00:00:0E	1234567890123470		
016	UniFi Switch	US-16-XG	Adopted	192.168.1.16	00:0C:87:00:00:0F	1234567890123471		
017	UniFi Switch	US-16-XG	Adopted	192.168.1.17	00:0C:87:00:00:10	1234567890123472		
018	UniFi Switch	US-16-XG	Adopted	192.168.1.18	00:0C:87:00:00:11	1234567890123473		
019	UniFi Switch	US-16-XG	Adopted	192.168.1.19	00:0C:87:00:00:12	1234567890123474		
020	UniFi Switch	US-16-XG	Adopted	192.168.1.20	00:0C:87:00:00:13	1234567890123475		

- 3. The System LED on the UniFi Switch will turn blue to confirm that it has been successfully adopted.

Specifications

US-16-XG	
Dimensions	443 x 221 x 43 mm (17.44 x 8.70 x 1.69")

Weight With Mount Brackets	2.67 kg (5.89 lb) 2.76 kg (6.04 lb)
Total Non-Blocking Line Rate	160 Gbps
Max. DC Power Consumption	36W (excludes SFP/SFP+ modules)
Power Method AC DC	100-240VAC/50-60 Hz, Universal Input 48VDC/24VDC
Power Supply	AC/DC, Internal, 56W DC
Supported Voltage Range	100 to 240VAC 57 to 20VDC
Rack-Mount	Yes, 1U High
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV
Shock and Vibration	ETSI300-019-1.4 Standard
LEDs Per Port SFP+ Data Ports RJ45 Data Ports	Speed/Link/Activity Speed/Link/Activity
Interfaces Networking Interfaces Management Interface	(12) 1/10 Gbps SFP+ Ethernet Ports (4) 1/10 Gbps RJ45 Ethernet Ports (1) RJ45 Serial Port, Ethernet In-Band
Operating Temperature	-5 to 40° C (23 to 104° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

Safety Notices

1. Read, follow, and keep these instructions.
2. Heed all warnings.
3. Only use attachments/accessories specified by the manufacturer.



WARNING: Failure to provide proper ventilation may cause fire hazard. Keep at least 20 mm of clearance next to the ventilation holes for adequate airflow.



WARNING: Do not use this product in location that can be submerged by water.



WARNING: Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

Electrical Safety Information

1. Compliance is required with respect to voltage, frequency, and current requirements indicated on the manufacturer's label. Connection to a different power source than those specified may result in improper operation, damage to the equipment or pose a fire hazard if the limitations are not followed.
2. There are no operator serviceable parts inside this equipment. Service should be provided only by a qualified service technician.
3. This equipment is provided with a detachable power cord which has an integral safety ground wire intended for connection to a grounded safety outlet.
 - a. **Do not** substitute the power cord with one that is not the provided approved type. Never use an adapter plug to connect to a 2-wire outlet as this will defeat the continuity of the grounding wire.
 - b. The equipment requires the use of the ground wire as a part of the safety certification, modification or misuse can provide a shock hazard that can result in serious injury or death.
 - c. Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment.
 - d. Protective earthing is provided by Listed AC adapter. Building installation shall provide appropriate short-circuit backup protection.
 - e. Protective bonding must be installed in accordance with local national wiring rules and regulations

Limited Warranty

ui.com/support/warranty

The limited warranty requires the use of arbitration to resolve disputes on an individual basis, and, where applicable, specify arbitration instead of jury trials or class actions.

Compliance

FCC

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions.

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operations of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

ISED Canada

CAN ICES-3(A)/NMB-3(A)

Australia and New Zealand



Warning: This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.



CE marking on this product represents the product is in compliance with all directives that are applicable to it.

WEEE Compliance Statement

Declaration of Conformity

Online Resources



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Documents / Resources



[UniFi Ubiquiti Networks](#) [pdf] User Guide US-16-XG, Ubiquiti Networks

References

- [U community.ubnt.com/unifi](https://community.ubnt.com/unifi)
- [U Ubiquiti - Downloads](#)
- [U Ubiquiti - Warranty](#)
- [U Ubiquiti - Rethinking IT](#)
- [U community.ubnt.com/](https://community.ubnt.com/)
- [WEEE Compliance Statement](#)
- [U Ubiquiti - Rethinking IT](#)
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