Package Contents



UniFi Security Gateway XG



Mounting Brackets (Qty. 2)



UF-RJ45-1G



Bracket Screws (Qty. 8)



Mounting Screws (Qty. 4)



Cage Nuts (Qty. 4)



Rubber Feet (Qty. 4)



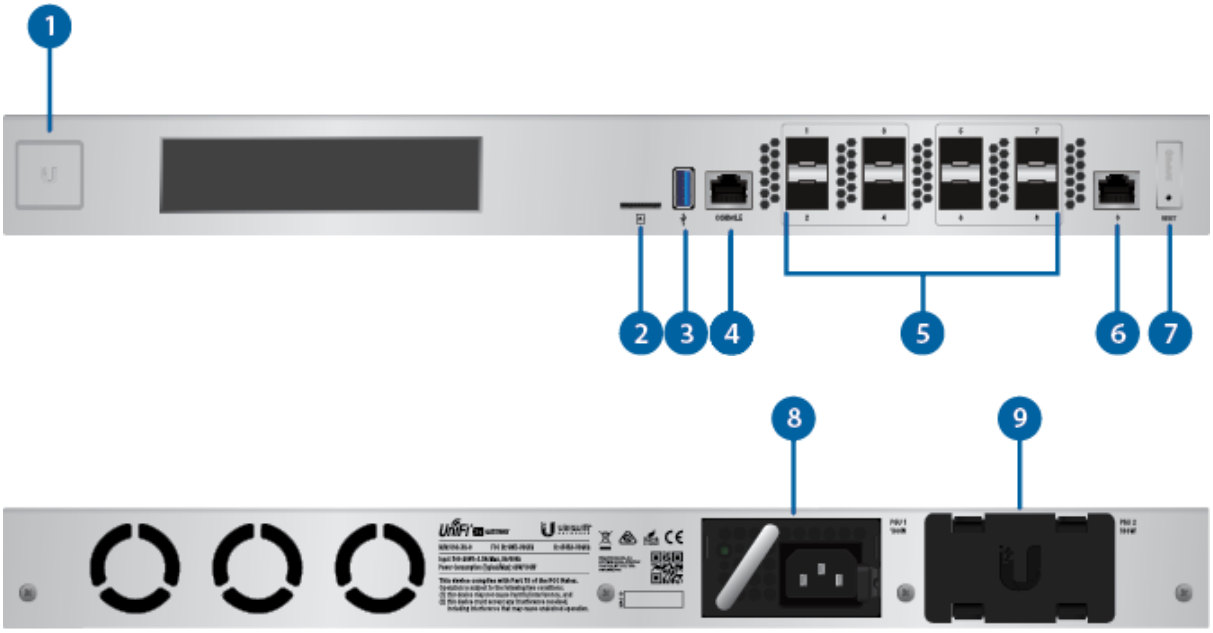
Power Cord

System Requirements

- Linux, Mac OS X, or Microsoft Windows 7/8/10
- Java Runtime Environment 7 (or above)
- Web Browser: Google Chrome (Other browsers may have limited functionality)
- UniFi Network Application v5.9 (or newer), available at: **ui.com/download/unifi**

IMPORTANT: We strongly recommend using UPS backup and power regulation to prevent equipment damage due to stability issues with local AC power.

Hardware Overview



1 System LED
Click here for detailed descriptions.
2 microSD Slot
Reserved for future use.
3 USB Port
Reserved for future use.
4 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 • Data bits: 8 • Parity: NONE • Stop bits: 1 • Flow control: NONE
5 SFP+ (Ports 1 - 8)
SFP+ ports are hot-swappable and support 10 Gbps fiber SFP modules.
6 RJ45 (Port 0)

7 Reset Button

Resets to factory defaults. The UniFi Gateway should be running after bootup is complete. Press and hold the Reset button for about 10 seconds until the System LED starts flashing and then becomes solidly lit. After a few seconds, the LED will turn off, and the UniFi Gateway will automatically reboot.

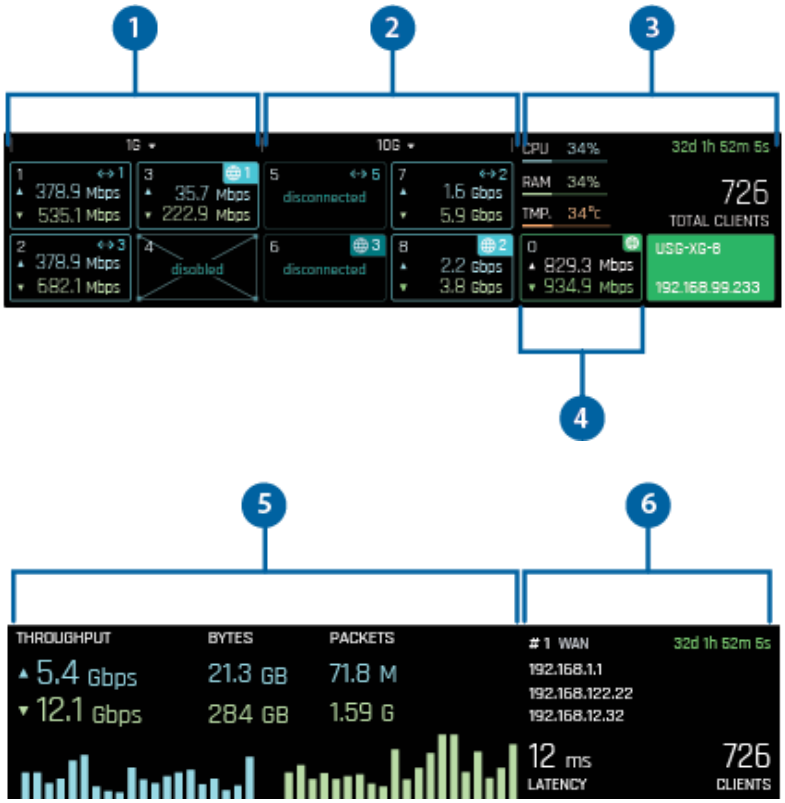
8 AC/DC PSU Module

One hot-swappable AC/DC PSU module is included.

9 PSU 2 Module Bay

An optional AC/DC PSU module can be installed in the PSU 2 Module Bay. You also have the option to use a DC/DC PowerModule™, model RPS-DC-100W (sold separately).

Touch LCM



1 Ports 1-4

Information on each SFP+ port:

- Port Speed: 1G or 10G

Note: There are two groups of ports: ports 1-4 and ports 5-8. All ports in each group operate at the same speed. For example, if port 1 is set to

- Port Number: 1 to 4
- Interface Type: - Primary WAN; - Other WAN; - LAN port
- Throughput: Upload (blue) and download (green) throughput speeds
- disconnected: Port is disconnected
- disabled: Port is disabled

Select any port to display its Statistics screen.

2 Ports 5-8

Information on each SFP+ port:

- Port Speed: 1G or 10G

Note: There are two groups of ports: ports 1-4 and ports 5-8. All ports in each group operate at the same speed. For example, if port 5 is set to 10G, then ports 6-8 will also operate at 10G.

- Port Number: 5 to 8
- Interface Type: - Primary WAN; - Other WAN; - LAN port
- Throughput: Upload (blue) and download (green) throughput speeds
- disconnected: Port is disconnected
- disabled: Port is disabled

Select any port to display its Statistics screen.

3 System Information

Information on the system:

- CPU and RAM usage percentage (red indicates usage of 90% or greater)
- Temperature of CPU in° C (red indicates temperature of 85° C or greater)
- Uptime of the device
- Number of clients (active connections)
- Host name
- IP address of the primary WAN port

4 Port 0

Information on RJ45 port 0:

- Interface Type: - Primary WAN; - Other WAN; - LAN port
- Throughput: Upload (blue) and download (green) throughput speeds

Select Port 0 to display its Statistics screen.

5 Statistics

the selected port (SFP+ ports 1-8 or RJ45 port 0):

- Throughput: Total throughput speed in bps/kbps/Mbps/Gbps
- Bytes: Total bytes (B)*
- Packets: Total packets*
- Bar Graphs: Plots of data uploaded and downloaded

6 Port Details

Details on the selected port (SFP+ ports 1-8 or RJ45 port 0):

- # <port><type>: Port 0 to 8; Type: WAN or LAN
- IP address(es) assigned to the port
- Uptime if port is up; or Disabled or Disconnected if port is down
- Latency in ms for the Primary WAN or selected port
- Number of clients (active connections) for the Primary WAN or selected port

** Units:*
k = 2^{10} = 1024
M = 2^{20} ≈ 1,000,000
G = 2^{30} ≈ 1,000,000,000
T = 2^{40} ≈ 1,000,000,000,000
P = 2^{50} ≈ 1,000,000,000,000,000

Installation Requirements

- Phillips screwdriver
- Standard-sized, 19" wide rack with a minimum of 1U height available
- For indoor applications, use Category 5 (or above) UTP cabling approved for indoor use.
- For outdoor applications, shielded Category 5 (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.

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

Hardware Installation

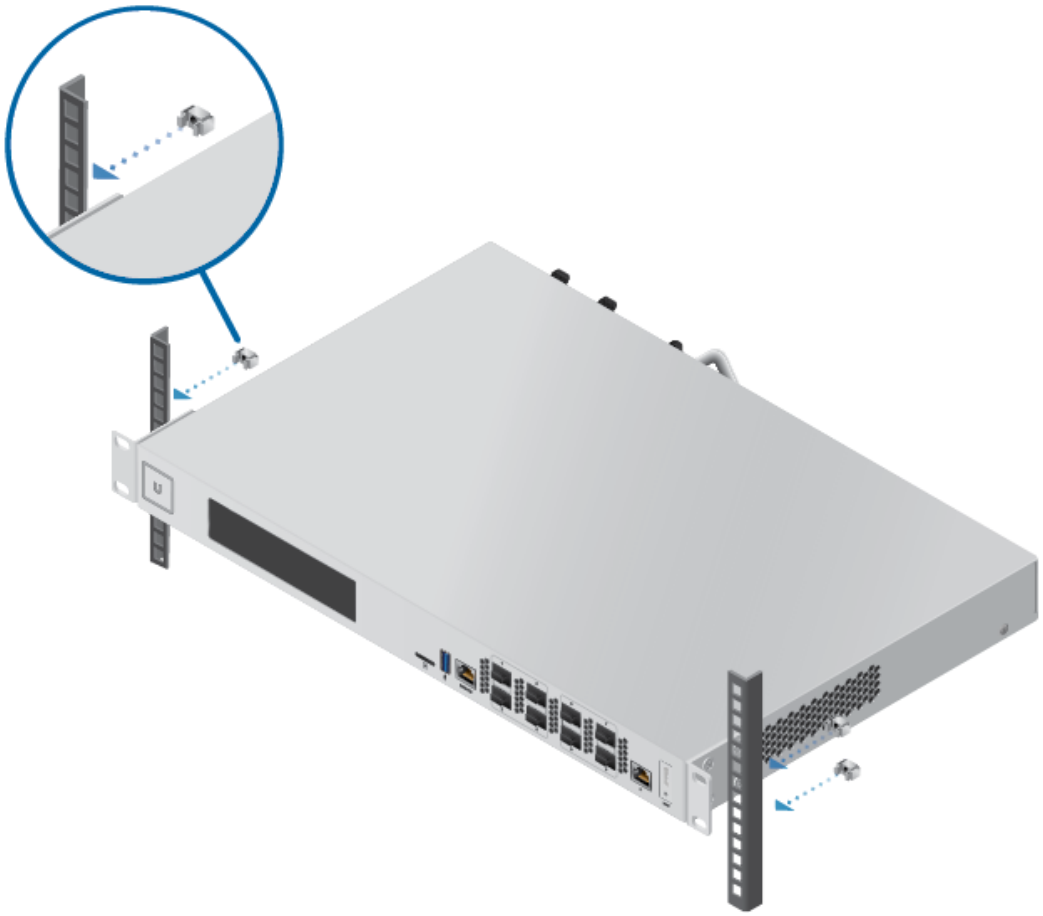
1.



2.



OR

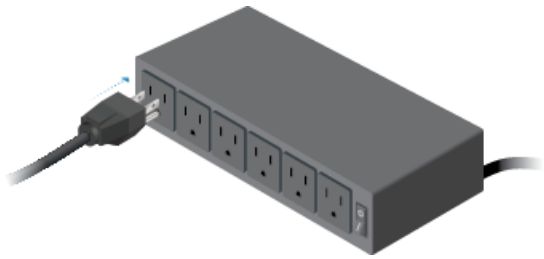




3.



4.



Connecting to the WAN

1.



2.



3.



For information about compatible fiber SFP+ modules, visit:
ubnt.link/UniFi_SFP_DAC_Compatibility

Connecting to the LAN

1.



2.



3.



Specifications

USG- XG-8	
Dimensions	442.4 x 285.6 x 43.7 mm (17.42 x 11.24 x 1.72")
Weight With Mount Brackets	4.435 kg (9.78 lb) 4.535 kg (9.98 lb)
Max. Power Consumption	AC/DC 100W
Power Supply	(2) Hot-Swappable AC/DC or DC/DC 100W PSU (1 AC/DC PSU Included)
Supported Voltage Range	100 - 240VAC
System LED	Status
Touch LCM	4.7" Wide-Viewing Angle True Color TFT-LCD Touchscreen
Processor	MIPS64 16-Core, 1.8 GHz
System Memory	16 GB DDR4 RAM
On-Board Flash Storage	4 GB
Rackmount	Yes, 1U
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV
Interfaces Networking Management	 (8) 10 Gbps SFP+ Ports, (1) 1 Gbps RJ45 Ethernet Port (1) RJ45 Ethernet In-Band, (1) RJ45 Serial Out-of-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: To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.



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

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.

This radio transmitter has been approved by FCC.

ISED Canada

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

This device complies with ISED Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

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

This radio transmitter has been approved by ISED Canada.

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

Le présent appareil est conforme aux CNR d'ISDE Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. l'appareil ne doit pas produire de brouillage;
2. l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Le présent émetteur radio a été approuvé par ISDE Canada.

IMPORTANT NOTE

Radiation Exposure Statement

- This equipment complies with radiation exposure limits set forth for an uncontrolled environment.

- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

AVIS IMPORTANT

Déclaration sur l'exposition aux rayonnements

- Cet équipement est conforme aux limites prévues pour l'exposition aux rayonnements dans un environnement non contrôlé.
- Lors de l'installation et de la mise en fonctionnement de l'équipement, assurez-vous qu'il y ait une distance minimale de 20 cm entre l'élément rayonnant et vous.
- Cet émetteur ne doit être installé à proximité d'aucune autre antenne ni d'aucun autre émetteur, et ne doit être utilisé conjointement à aucun autre de ces appareils.

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.

Brazil

Nota: Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

CE Marking

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

Note: This device meets Max. TX power limit per ETSI regulations.

WEEE Compliance Statement

Declaration of Conformity

Online Resources







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