Introduction
Thank you for purchasing the Ubiquiti Networks® EdgeRouter™. This Quick Start Guide is designed to guide you through installation and also includes warranty terms.

Package Contents

TERMS OF USE: All Ethernet cabling runs must use CAT5 (or above). It is the professional installer’s responsibility to follow local country regulations, including operation within legal frequency channels, output power, indoor cabling requirements, and Dynamic Frequency Selection (DFS) requirements.
Installation Requirements

- Drill with a 6 mm drill bit (for wall-mounting)
- Phillips screwdriver
- 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 Networks. For more details, visit: www.ubnt.com/toughcable

⚠️ **WARNING**: To reduce the risk of fire or electric shock, do not expose the EdgeRouter to rain or moisture.

>Note: Although the cabling can be located outdoors, the EdgeRouter itself should be housed inside a protective enclosure.
Hardware Overview

Front Panel Ports

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
</table>
| Console    | 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. (If your computer does not have a DB9 port, then you will also need a DB9 adapter.) Then configure the following settings as needed:  
  * Baud rate 115200  
  * Data bits 8  
  * Parity NONE  
  * Stop bits 1  
  * Flow control NONE |
| USB        | Reserved for future use.                                                                                                                                                      |
| RJ45 (eth0-eth4) | RJ45 ports support 10/100/1000 Ethernet connections and 24V 2-pair/24V 4-pair Passive PoE output.                                                               |
| SFP (eth5) | SFP port is hot-swappable and supports Gigabit fiber SFP modules.                                                                                                           |
There are two methods to reset the EdgeRouter to factory defaults:

- **Runtime reset (recommended)** The EdgeRouter should be running after bootup is complete. Press and hold the **Reset** button for about 10 seconds until the LED for port `eth5` starts flashing and then becomes solidly lit. After a few seconds, the LED will turn off, and the EdgeRouter will automatically reboot.

- **Power-on reset** Disconnect the **Power Cord** from the **Power Adapter**. Press and hold the **Reset** button while connecting the power (refer to “Connecting Power” for details). The port LEDs will light up in sequential order. Keep holding the **Reset** button until the **System** LED starts flashing blue and white, and then release the button.
Front Panel LEDs

System LED

**Note:** The System LED functionality has been updated with firmware v1.10.7. We recommend that you update the EdgeRouter to the latest firmware.

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flashing White</td>
<td>Bootup in progress.</td>
</tr>
<tr>
<td>White</td>
<td>Ready for use, not connected to Ubiquiti® Network Management System (UNMS™).</td>
</tr>
<tr>
<td>Blue</td>
<td>Ready for use, connected to UNMS.</td>
</tr>
<tr>
<td>Steady Blue with Occasional Flasking Blue</td>
<td>Ready for use, unable to connect to UNMS, check connection to UNMS server.</td>
</tr>
<tr>
<td>Quickly Flashing Blue</td>
<td>Used to locate a device in UNMS.</td>
</tr>
<tr>
<td>Alternating Blue/White</td>
<td>Firmware upgrade in progress.</td>
</tr>
</tbody>
</table>

You can use the EdgeRouter Configuration Interface or UNMS to manage your device. UNMS lets you configure, monitor, upgrade, and back up your devices using a single application. Get started at [www.unms.com](http://www.unms.com)
### RJ45 LEDs

<table>
<thead>
<tr>
<th>LED</th>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PoE</td>
<td>Off</td>
<td>No PoE</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>24V 2-Pair Passive PoE Output</td>
</tr>
<tr>
<td></td>
<td>Blue</td>
<td>24V 4-Pair Passive PoE Output</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Speed/Link/Activity</th>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>No Link</td>
<td></td>
</tr>
<tr>
<td>Amber</td>
<td>Link Established at 10/100 Mbps</td>
<td></td>
</tr>
<tr>
<td>Amber Flashing</td>
<td>Link Activity at 10/100 Mbps</td>
<td></td>
</tr>
<tr>
<td>Green</td>
<td>Link Established at 1000 Mbps (1 Gbps)</td>
<td></td>
</tr>
<tr>
<td>Green Flashing</td>
<td>Link Activity at 1000 Mbps (1 Gbps)</td>
<td></td>
</tr>
</tbody>
</table>

### SFP LED

<table>
<thead>
<tr>
<th>LED</th>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed/Link/Activity</td>
<td>Off</td>
<td>No Link</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>Link Established at 1 Gbps</td>
</tr>
<tr>
<td></td>
<td>Green Flashing</td>
<td>Link Activity at 1 Gbps</td>
</tr>
</tbody>
</table>
Back Panel

Note: There are additional ventilation holes on the sides of the EdgeRouter.

Hardware Installation

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.

Wall Mounting

To mount the EdgeRouter on a wall, you will need a drill, a 6 mm drill bit, and a Phillips screwdriver.

1. Use a 6 mm drill bit to drill two holes 125 mm apart.

2. Insert the Wall Mount Anchors into the holes. Use a Phillips screwdriver to secure a Wall Mount Screw to each anchor. Leave a clearance of approximately 3 mm between each screw head and its anchor.

Note: You can also mount the EdgeRouter in a vertical orientation.
3. Position the EdgeRouter with the Ethernet ports facing down. Place the wall-mount slots of the EdgeRouter over the screw heads on the wall. Then slide the EdgeRouter down to lock it into place.

![EdgeRouter diagram](image)

**Grounding the EdgeRouter (Recommended)**

The EdgeRouter is grounded through the *Power Adapter*; however, you can add optional ESD grounding for enhanced ESD protection.

1. Attach the *Ground Screw* to secure a ground wire (not included) to the *Grounding Point*.

![Ground Screw diagram](image)

2. Optional: To secure the *Power Adapter* cord, insert it into the *Cable Clip* and secure the *Cable Clip* using the *Ground Screw*.

3. Secure the other end of the ground wire to a grounding block.
Connecting Power

1. Connect the *Power Adapter* to the *Power* port.

2. Connect the *Power Cord* to the *Power Adapter*.

3. Connect the other end of the *Power Cord* to a power outlet.
Using SFP Ports

To use an SFP port:

1. Remove the protective plug covering the SFP port.
2. Plug a fiber SFP module into the SFP port.
3. Connect a fiber optic cable to the fiber SFP module. Then connect the other end of the cable to another fiber device.

For information about compatible fiber SFP modules, visit: [ubnt.link/SFP_DAC_Compatibility](ubnt.link/SFP_DAC_Compatibility)
Accessing the EdgeOS Configuration Interface

The EdgeOS® configuration interface can be accessed via DHCP or static IP address assignment. By default, *eth1* is set up as a DHCP client, while *eth0* is assigned a static IP address of 192.168.1.1. To configure the EdgeRouter, proceed to the appropriate section: *DHCP* or "**Static IP Address**".

**DHCP**

1. Connect an Ethernet cable from *eth1* on the EdgeRouter to a LAN segment that has an existing DHCP server.

2. To check the IP address of the EdgeRouter, use one of the following methods:
   - Set up the DHCP server to provide a specific IP address to the EdgeRouter based on its MAC address (on the label).
   - Let the EdgeRouter obtain an IP address and then check the DHCP server to see which IP address was assigned.

3. Launch your web browser. Enter the appropriate IP address in the address field. Press **enter** (PC) or **return** (Mac).
4. The login screen will appear. Enter **ubnt** in the **Username** and **Password** fields. Read the Ubiquiti License Agreement, and check the box next to **I agree to the terms of this License Agreement** to accept it. Click **Login**.

The EdgeOS Configuration Interface will appear, allowing you to customize your settings as needed. For more information, refer to the EdgeOS User Guide, which is available at [www.ubnt.com/download/edgemax](http://www.ubnt.com/download/edgemax)

For more information on PoE configuration, refer to “**Configuring PoE Settings**”.

You can also manage your device using the Ubiquiti Network Management System. UNMS lets you configure, monitor, upgrade, and back up your devices using a single application. Get started at [www.unms.com](http://www.unms.com)

**Static IP Address**

1. Connect an Ethernet cable from the Ethernet port on your computer to the port labeled **eth0** on the EdgeRouter.
2. Configure the Ethernet adapter on your host system with a static IP address on the 192.168.1.x subnet.

3. Launch your web browser. Type **https://192.168.1.1** in the address field. Press **enter** (PC) or **return** (Mac).

4. The login screen will appear. Enter **ubnt** in the **Username** and **Password** fields. Read the Ubiquiti License Agreement, and check the box next to **I agree to the terms of this License Agreement** to accept it. Click **Login**.

![Login screen](image)

The EdgeOS Configuration Interface will appear, allowing you to customize your settings as needed. For more information, refer to the EdgeOS User Guide, which is available at [www.ubnt.com/download/edgemax](http://www.ubnt.com/download/edgemax)

For more information on PoE configuration, refer to “**Configuring PoE Settings**”.

You can also manage your device using the Ubiquiti® Network Management System. UNMS lets you configure, monitor, upgrade, and back up your devices using a single application. Get started at [www.unms.com](http://www.unms.com)
Configuring PoE Settings

The PoE setting for ports eth0-eth4 is set to Off by default.

⚠️ **WARNING:** Before activating PoE, ensure that the connected device supports passive PoE and the supplied voltage.

1. In the *Dashboard* tab, click *Actions > PoE* of the Ethernet port you want to configure.

2. The *Interface Configuration* window will appear. Select the appropriate PoE setting, and click *Save*. 
3. The Ethernet port’s PoE LED will confirm the PoE setting.

PoE (eth0-eth4)

For detailed instructions on configuring other features, please refer to the EdgeOS User Guide. The User Guide is available at www.ubnt.com/download/edgemax

You can also manage your device using the Ubiquiti Network Management System. UNMS lets you configure, monitor, upgrade, and back up your devices using a single application. Get started at www.unms.com
## Specifications

<table>
<thead>
<tr>
<th>ER-6P</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>229 x 136.5 x 31.1 mm (9.02 x 5.37 x 1.22&quot;)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>730 g (1.61 lb)</td>
</tr>
<tr>
<td><strong>Max. Power Consumption</strong></td>
<td>16W (Excludes PoE Output)</td>
</tr>
<tr>
<td><strong>Power Method</strong></td>
<td>External AC/DC Power Adapter, 60W (24V, 2.5A) (Included)</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>External AC/DC Adapter</td>
</tr>
<tr>
<td><strong>Supported Voltage Range</strong></td>
<td>16 - 30VDC</td>
</tr>
<tr>
<td><strong>Button</strong></td>
<td>Reset</td>
</tr>
<tr>
<td><strong>LEDs</strong></td>
<td>Speed/Link/Activity, PoE Link/Activity</td>
</tr>
<tr>
<td><strong>Data Ports</strong></td>
<td></td>
</tr>
<tr>
<td><strong>SFP Data Port</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Processor</strong></td>
<td>4-Core 1 GHz MIPS64</td>
</tr>
<tr>
<td><strong>System Memory</strong></td>
<td>1 GB DDR3 RAM</td>
</tr>
<tr>
<td><strong>On-Board Flash Storage</strong></td>
<td>4 GB eMMC, 8 MB SPI NOR</td>
</tr>
<tr>
<td><strong>ESD/EMP Protection</strong></td>
<td>Air: ± 24 kV, Contact: ± 24 kV</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td>(1) RJ45 Serial Port</td>
</tr>
<tr>
<td><strong>Networking</strong></td>
<td>(6) Ethernet Ports (Default eth0)</td>
</tr>
<tr>
<td></td>
<td>(5) 10/100/1000 RJ45 Ports with PoE</td>
</tr>
<tr>
<td></td>
<td>(1) 1 Gbps SFP Port</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-10 to 50° C (14 to 122° F)</td>
</tr>
<tr>
<td><strong>Operating Humidity</strong></td>
<td>10 - 90% Noncondensing</td>
</tr>
<tr>
<td><strong>Certifications</strong></td>
<td>CE, FCC, IC</td>
</tr>
<tr>
<td><strong>PoE with 24VDC Power Adapter</strong></td>
<td></td>
</tr>
<tr>
<td><strong>PoE Interfaces</strong></td>
<td>(5) 24V Passive PoE Ports, 2-pair (4, 5+; 7, 8-) and 4-pair</td>
</tr>
<tr>
<td><strong>Passive PoE Max. Wattage Per Ports</strong></td>
<td>24W (24V, 1A, 4-pair)</td>
</tr>
<tr>
<td></td>
<td>12W (24V, 0.5A, 2-pair)</td>
</tr>
<tr>
<td><strong>Voltage Range Passive PoE</strong></td>
<td>24V</td>
</tr>
</tbody>
</table>
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

www.ubnt.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)

This Class A digital apparatus complies with Canadian CAN ICES-003.

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

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Australia and New Zealand

Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
CE Marking
CE marking on this product represents the product is in compliance with all directives that are applicable to it.

RoHS/WEEE Compliance Statement

English
European Directive 2012/19/EU requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

Deutsch
Español
La Directiva 2012/19/UE exige que los equipos que lleven este símbolo en el propio aparato y/o en su embalaje no deben eliminarse junto con otros residuos urbanos no seleccionados. El símbolo indica que el producto en cuestión debe separarse de los residuos domésticos convencionales con vistas a su eliminación. Es responsabilidad suya desechar este y cualesquiera otros aparatos eléctricos y electrónicos a través de los puntos de recogida que ponen a su disposición el gobierno y las autoridades locales. Al desechar y reciclar correctamente estos aparatos estará contribuyendo a evitar posibles consecuencias negativas para el medio ambiente y la salud de las personas. Si desea obtener información más detallada sobre la eliminación segura de su aparato usado, consulte a las autoridades locales, al servicio de recogida y eliminación de residuos de su zona o pregunte en la tienda donde adquirió el producto.

Français
La directive européenne 2012/19/UE exige que l’équipement sur lequel est apposé ce symbole sur le produit et/ou son emballage ne soit pas jeté avec les autres ordures ménagères. Ce symbole indique que le produit doit être éliminé dans un circuit distinct de celui pour les déchets des ménages. Il est de votre responsabilité de jeter ce matériel ainsi que tout autre matériel électrique ou électronique par les moyens de collecte indiqués par le gouvernement et les pouvoirs publics des collectivités territoriales. L’élimination et le recyclage en bonne et due forme ont pour but de lutter contre l’impact néfaste potentiel de ce type de produits sur l’environnement et la santé publique. Pour plus d’informations sur le mode d’élimination de votre ancien équipement, veuillez prendre contact avec les pouvoirs publics locaux, le service de traitement des déchets, ou l’endroit où vous avez acheté le produit.

Italiano
La direttiva europea 2012/19/UE richiede che le apparecchiature contrassegnate con questo simbolo sul prodotto e/o sull’imballaggio non siano smaltite insieme ai rifiuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifiuti domestici. È responsabilità del proprietario smaltire sia questi prodotti sia le altre apparecchiature elettriche ed elettroniche mediante la specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali. Il corretto smaltimento ed il riciclaggio aiuteranno a prevenire conseguenze potenzialmente negative per l’ambiente e per la salute dell’essere umano. Per ricevere informazioni più dettagliate circa lo smaltimento delle vecchie apparecchiature in Vostro possesso, Vi invitiamo a contattare gli enti pubblici di competenza, il servizio di smaltimento rifiuti o il negozio nel quale avete acquistato il prodotto.
Declaration of Conformity

English Hereby, UBIQUITI NETWORKS, declares that this ER-6P device, is in compliance with the essential requirements and other relevant provisions of Directives 2014/30/EU, 2014/35/EU.

The full text of the EU declaration of conformity is available at the following internet address: www.ubnt.com/compliance
Con la presente, UBIQUITI NETWORKS, dichiara che questo dispositivo ER-6P, è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti delle direttive 2014/30/UE, 2014/35/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: www.ubnt.com/compliance


Hawnhekk, UBIQUITI NETWORKS, tiddikjara li dan il-mezz ER-6P huwa konformi mar-rekwiżiti essenzjali u dispozizzjonijiet rilevanti oħrajn ta’ Direttivi 2014/30/UE, 2014/35/UE. Id-dikjarazzjoni tal-konformità tista’ tigi kkonsultata minn www.ubnt.com/compliance

Herved UBIQUITI NETWORKS, erklærer at denne ER-6P enheten, er i samsvar med de grunnleggende kravene og andre relevante bestemmelser i direktivene 2014/30/EU, 2014/35/EU. Den fulle teksten til EU-samsvarserklæringen er tilgjengelig på følgende internettadresse: www.ubnt.com/compliance

UBIQUITI NETWORKS declara que este dispositivo ER-6P, está conforme com os requisitos essenciais e outras disposições das Directivas 2014/30/UE, 2014/35/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: www.ubnt.com/compliance

Niniejszym, Ubiquiti Networks, oświadcza, że urządzenie ER-6P, jest zgodny z zasadniczymi wymaganiami oraz pozostałymi stosownymi postanowieniami Dyrektyw 2014/30/UE, 2014/35/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: www.ubnt.com/compliance


Týmto UBIQUITI NETWORKS, prehlasuje, da je naprava ER-6P v skladu z obveznimi zahtevami in drugimi ustreznimi določbami direktiv 2014/30/EU in 2014/35/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: www.ubnt.com/compliance

Družba UBIQUITI NETWORKS izjavlja, da je naprava ER-6P v skladu z obveznimi zahtevami in drugimi ustreznimi določbami direktiv 2014/30/EU in 2014/35/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: www.ubnt.com/compliance

Por medio de la presente UBIQUITI NETWORKS declara que este dispositivo ER-6P cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de las Directivas 2014/30/EU, 2014/35/EU. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: www.ubnt.com/compliance

Härmed UBIQUITI NETWORKS, intygar att denna ER-6P enhet är i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiven 2014/30/EU, 2014/35/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: www.ubnt.com/compliance

Online Resources

Support help.ubnt.com
Community community.ubnt.com
Downloads downloads.ubnt.com