EdgePower™
54V, 150W EdgePoint™
DC Power Supply
Model: EP-54V-150W
Introduction

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

Package Contents

- EdgePower EP-54V-150W
- Power Cord
- Mount Brackets (Qty. 4)
- Bracket Screws (M4x5.3, Qty. 16)
- Rack-Mount Screws (#10-32 x 5/8", Qty. 4)
- Cage Nuts (#10-32 x 5/8", Qty. 4)
- Mounting Screws (M4x30, Qty. 8)
- Screw Anchors (M4x24, Qty. 8)
- Quick Start Guide

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

• Linux, Mac OS X, or Microsoft Windows 7/8/10
• Web Browser: Mozilla Firefox, Google Chrome, Microsoft Edge, or Microsoft Internet Explorer 11

Installation Requirements

• EdgePoint EP-R8 or EP-S16 (54VDC supported device)
• Phillips screwdriver (for mounting)
• Standard-sized, 19" wide rack with a minimum of 1U height available (for rack-mounting)
• PowerCable™ or equivalent outdoor-rated, 12 AWG stranded DC power cable

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

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

Optional Power Supply Modules

A secondary PSU module bay is available for reserving a hot-swappable, backup PSU or for increasing the DC output power to 300W. Two PSU models are available:

• **AC/DC 54V, 150W PSU**
  Model EP-54V-150W-AC

• **DC/DC 54V, 150W PSU**
  Model EP-54V-150W-DC
## Hardware Overview

### Front Panel

<table>
<thead>
<tr>
<th>Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management Port</td>
<td>10/100 Ethernet port for accessing the EdgePower Configuration Interface.</td>
</tr>
<tr>
<td>PSU 1</td>
<td>Primary PSU module bay supports a 150W PSU module. Factory default is On, and is configurable through the EdgePower Configuration Interface.</td>
</tr>
<tr>
<td>PSU 2</td>
<td>Secondary PSU module bay supports an optional 150W PSU module for increasing power output, or configured Off to house a spare PSU module. Factory default is On, and is configurable through the EdgePower Configuration Interface.</td>
</tr>
<tr>
<td>DC Out</td>
<td>Connect the DC cable to this terminal block. Supports up to 300W output.</td>
</tr>
<tr>
<td>Reset Button</td>
<td>To restore to factory defaults, press and hold the Reset button for more than five seconds.</td>
</tr>
<tr>
<td>PSU Module</td>
<td>Preinstalled 54V, 150W AC/DC PSU module, model EP-54V-150W-AC.</td>
</tr>
<tr>
<td>Bay Cover</td>
<td>Keep the Bay Cover on when the bay is not occupied by a PSU module.</td>
</tr>
<tr>
<td>Grounding Bolt</td>
<td>Auxiliary grounding point for grounding the EdgePower.</td>
</tr>
</tbody>
</table>
Front Panel LEDs

<table>
<thead>
<tr>
<th>LED</th>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Green</td>
<td>System On</td>
</tr>
<tr>
<td>(</td>
<td>Off</td>
<td>No Link</td>
</tr>
<tr>
<td>&lt;&gt;</td>
<td>Green</td>
<td>Link Established at 10/100 Mbps</td>
</tr>
<tr>
<td>PSU Module</td>
<td>Off</td>
<td>PSU 1 and PSU 2 Off</td>
</tr>
<tr>
<td></td>
<td>Amber</td>
<td>PSU 1 or PSU 2 On and Working Properly</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>PSU 1 and PSU 2 On and Working Properly</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Inactive, Power Off</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>Active, Power On</td>
</tr>
</tbody>
</table>

Side Panel

**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.
Hardware Installation

The EdgePower can be placed on a horizontal surface, rack-mounted, or mounted on a wall or shelf.

Rack Mounting

1. Attach the *Mount Brackets* to the EdgePower using the eight *Bracket Screws*.

2. Attach the EdgePower to the rack using the four *Rack-Mount Screws*. (If the rack has square slots, use the *Cage Nuts* with the *Rack-Mount Screws*. )
Wall Mounting

1. Attach the four Mount Brackets to the EdgePower using the 16 Bracket Screws, positioning the brackets as shown below.

2. Attach the EdgePower to the wall using the eight Screw Anchors and eight Mounting Screws.
Shelf Mounting

1. Attach the four *Mount Brackets* to the EdgePower using the 16 *Bracket Screws*, positioning the brackets as shown below.

2. Attach the EdgePower to the shelf using the eight *Mounting Screws*. 
Connecting the EdgePower

1. Connect a DC power cable to the DC Out terminal block.

2. Connect the other end of the DC cable to the EdgePoint EP-R8 or EP-S16 (or other 54VDC device).

3. (Optional) Connect an Ethernet cable from your LAN or host system to the Management Port.

**Note:** Connecting to the Management Port is only necessary for accessing the configuration interface to configure PSU 2 or to monitor power.
4. Connect the *Power Cord* to the *PSU Module*.

5. Connect the other end of the *Power Cord* to a power outlet.
Installing a Ground Wire

We recommend installing a ground wire for added ESD protection and as a safety precaution.

**Note:** For guidelines about grounding and lightning protection, follow your local electrical regulatory codes.

1. Remove the nut from the *Grounding Bolt*.

2. Connect a ground wire (not included), and replace the nut to secure the wire.

3. Attach the other end of the ground wire to a grounded structure or grounding bar.
Installing a Secondary PSU Module (Optional)

1. Depress the four locking tabs on the Bay Cover and remove it.

2. Insert the PSU module until the Lock Lever engages and locks into place.

Note: To remove a PSU module, push and hold the Lock Lever to the left and then pull the module out.
Accessing the Configuration Interface (Optional)

Access the EdgePower Configuration Interface to monitor status and power consumption, or to configure the PSU modules and network settings.

Configuration is only necessary if you have an optional PSU module installed in the PSU 2 bay and need to deactivate it. By default, PSU 2 is on and configured to provide additional power output.

Note: The EdgePower is set to DHCP by default with a fallback IP address of 192.168.10.1.

1. Connect an Ethernet cable from your host system to the Management Port.
2. Configure the Ethernet adapter on your host system with a static IP address on the 192.168.10.x subnet.
3. Launch your web browser. Type https://192.168.10.1 in the address field. Press enter (PC) or return (Mac).

4. The login screen will appear. Enter ubnt in the Username and Password fields. Click Login.
5. The *Dashboard* will appear showing a summary of the EdgePower status and settings.

6. To deactivate the *PSU 2* module, toggle the *Power Supply 2* setting to *Off*, and click **Save Changes**.

7. The *PSU LED* will light amber and the LED on *PSU 2* will turn off, indicating that only *PSU 1* is on and operational. Total power output is up to 150W.
<table>
<thead>
<tr>
<th>Specifications</th>
<th>EdgePower EP-54V-150W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions without Mount</td>
<td>299.8 x 286.9 x 42.55 mm (11.89 x 11.3 x 1.675&quot;)</td>
</tr>
<tr>
<td>Brackets</td>
<td></td>
</tr>
<tr>
<td>Weight without Mount</td>
<td>2.7 kg (5.95 lb)</td>
</tr>
<tr>
<td>Brackets</td>
<td></td>
</tr>
<tr>
<td>Power Method</td>
<td>100-240VAC/50-60 Hz, Universal Input</td>
</tr>
<tr>
<td>Power Supply Module</td>
<td>54V, 150W AC/DC, Model EP-54V-150W-AC, Installed in PSU 1</td>
</tr>
<tr>
<td>Maximum Power Output</td>
<td>150W (1 PSU Module)</td>
</tr>
<tr>
<td></td>
<td>300W (2 PSU Modules @ 150W Each)</td>
</tr>
<tr>
<td>LEDs</td>
<td>System On/Off</td>
</tr>
<tr>
<td>Power</td>
<td>Management Port Link</td>
</tr>
<tr>
<td>Ethernet</td>
<td>PSU1+PSU2, PSU1/PSU2</td>
</tr>
<tr>
<td>PSU</td>
<td></td>
</tr>
<tr>
<td>Networking Interface</td>
<td>(1) 10/100 RJ45 Ethernet</td>
</tr>
<tr>
<td>Management Interface</td>
<td>Ethernet In-Band, Web UI</td>
</tr>
<tr>
<td>Rack-Mount</td>
<td>Yes, 1U High</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to 40° C (32 to 104° F)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>10 to 90% RH</td>
</tr>
<tr>
<td>ESD/EMP Protection</td>
<td>Air ± 24KV; Contact ± 24KV</td>
</tr>
<tr>
<td>Certifications</td>
<td>CE, FCC, IC</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 20mm 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

UBIQUITI NETWORKS, Inc (“UBIQUITI NETWORKS”) warrants that the product(s) furnished hereunder (the “Product(s)”) shall be free from defects in material and workmanship for a period of one (1) year from the date of shipment by UBIQUITI NETWORKS under normal use and operation. UBIQUITI NETWORKS’ sole and exclusive obligation and liability under the foregoing warranty shall be for UBIQUITI NETWORKS, at its discretion, to repair or replace any Product that fails to conform to the above warranty during the above warranty period. The expense of removal and reinstallation of any Product is not included in this warranty. The warranty period of any repaired or replaced Product shall not extend beyond its original term.

Warranty Conditions

The above warranty does not apply if the Product:
(I) has been modified and/or altered, or an addition made thereto, except by Ubiquiti Networks, or Ubiquiti Networks’ authorized representatives, or as approved by Ubiquiti Networks in writing;
(II) has been painted, rebranded or physically modified in any way;
(III) has been damaged due to errors or defects in cabling;
(IV) has been subjected to misuse, abuse, negligence, abnormal physical, electromagnetic or electrical stress, including lightning strikes, or accident;
(V) has been damaged or impaired as a result of using third party firmware;
(VI) has no original Ubiquiti MAC label, or is missing any other original Ubiquiti label(s); or
(VII) has not been received by Ubiquiti within 30 days of issuance of the RMA.

In addition, the above warranty shall apply only if: the product has been properly installed and used at all times in accordance, and in all material respects, with the applicable Product documentation; all Ethernet cabling runs use CAT5 (or above), and for outdoor installations, shielded Ethernet cabling is used, and for indoor installations, indoor cabling requirements are followed.

Returns

No Products will be accepted for replacement or repair without obtaining a Return Materials Authorization (RMA) number from UBIQUITI NETWORKS during the warranty period, and the Products being received at UBIQUITI NETWORKS’ facility freight prepaid in accordance with the RMA process of UBIQUITI NETWORKS. Products returned without an RMA number will not be processed and will be returned freight collect or subject to disposal. Information on the RMA process and obtaining an RMA number can be found at: www.ubnt.com/support/warranty.
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Note
Some countries, states and provinces do not allow exclusions of implied warranties or conditions, so the above exclusion may not apply to you. You may have other rights that vary from country to country, state to state, or province to province. Some countries, states and provinces do not allow the exclusion or limitation of liability for incidental or consequential damages, so the above limitation may not apply to you. EXCEPT TO THE EXTENT ALLOWED BY LOCAL LAW, THESE WARRANTY TERMS DO NOT EXCLUDE, RESTRICT OR MODIFY, AND ARE IN ADDITION TO, THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE LICENSE OF ANY SOFTWARE (EMBEDDED IN THE PRODUCT) TO YOU. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to any transactions regarding the sale of the Products.

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.

NOTE: 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.

Industry Canada

CAN ICES-3(A)/NMB-3(A)
This Class A digital apparatus complies with Canadian CAN ICES-3(A).

Cet appareil numérique de la classe A est conforme à la norme NMB-3(A) 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 2002/96/EC 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

La Directiva 2002/96/CE de la 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 deshacerse de este y cualesquiera otros aparatos eléctricos y electrónicos a través de los puntos de recogida que pongan a su disposición el gobierno y las autoridades locales. Al deshacerse 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.
Hereby, UBIQUITI NETWORKS, declares that this UBIQUITI NETWORKS device, is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Hawnhekk, UBIQUITI NETWORKS, tiddijkara li dan il-mezz UBIQUITI NETWORKS huwa konformi mar-rekwiżiti essenzjali u dispożizzjonijiet rilevanti oħrajn ta ‘Direttiva 1999/5/EC.

Herved UBIQUITI NETWORKS, erklærer at denne UBIQUITI NETWORKS enheten, er i samsvar med de grunnleggende kravene og andre relevante bestemmelser i direktiv 1999/5/EF.

Týmto UBIQUITI NETWORKS, prehlasuje, že toto UBIQUITI NETWORKS zariadenie, je v súlade so základnými požiadavkami a ďalšími relevantnými ustanoveniami smernice 1999/5/ES.

Härmed UBIQUITI NETWORKS, intygar att denna UBIQUITI NETWORKS enhet är i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Por medio de la presente UBIQUITI NETWORKS declara que este dispositivo UBIQUITI NETWORKS, cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

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UBIQUITI NETWORKS declara que este dispositivo UBIQUITI NETWORKS, está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

Prin prezentă, UBIQUITI NETWORKS declară că acest dispozitiv UBIQUITI NETWORKS este în conformitate cu cerințele esențiale și alte prevederi relevance ale Directivei 1999/5/CE.

**Online Resources**

- **Support** support.ubnt.com
- **Community** community.ubnt.com
- **Downloads** downloads.ubnt.com