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

Package Contents

TOUGHSwitch CARRIER

Flathead Screws (M3x8, Qty. 2)
Phillips Screws (#10-32 x 5/8”, Qty. 4)
Cage Nuts (#10-32 x 5/8”, Qty. 4)

Power Cords (Qty. 2)
Quick Start Guide

TERMS OF USE: All Ethernet cabling runs must use CAT5 (or above). Shielded Ethernet cable and earth grounding must be used for outdoor installations as conditions of product warranty. TOUGHcable™ is designed for outdoor installations. It is the customer’s responsibility to follow local country regulations, including operation within legal frequency channels, output power, and Dynamic Frequency Selection (DFS) requirements.
Hardware Overview

A and B designate the two 8-Port TOUGHSwitch PoE PROs housed in the rack. This may be useful for the Location setting on the Device tab in the Configuration Interface.

Front Panel Ports

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management</td>
<td>10/100 Mbps port used to access the TOUGHSwitch Configuration Interface.</td>
</tr>
<tr>
<td>Ports 1-8</td>
<td>10/100/1000 Mbps ports for switching and PoE (also available for management by default).</td>
</tr>
<tr>
<td>USB</td>
<td>Reserved for future use.</td>
</tr>
<tr>
<td>Reset</td>
<td>To reset to factory defaults, press and hold the Reset button for more than 10 seconds while the unit is already powered on.</td>
</tr>
</tbody>
</table>

Back Panel

Note: There are additional ventilation holes on the top and sides of the TOUGHSwitch.
## Front Panel LEDs

*Power/Link*
- **Off**: No Power/No Link
- **Amber**: After bootup, the LED indicates power. After an initial link is established, the LED indicates a 10/100 Mbps connection. If the link terminates, the LED turns off until a link is re-established. If the unit reboots, the LED will again indicate power until a link is established.

*PoE*
- **Off**: No Power over Ethernet
- **Green**: 24V Power over Ethernet
- **Amber**: 48V Power over Ethernet

*Speed/Link/Act*
- **Off**: No link
- **Amber**: Link established at 10/100 Mbps
- **Amber Flashing**: Link activity at 10/100 Mbps
- **Green**: Link established at 1000 Mbps
- **Green Flashing**: Link activity at 1000 Mbps
Installation Requirements

• Phillips and flathead screwdrivers
• Standard-sized, 19" wide rack with an available 1U space
• 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

Important: Although the cabling can be located outdoors, the TOUGHSwitch itself should be housed inside a protective enclosure.

WARNING: To reduce the risk of fire or electric shock, do not expose this TOUGHSwitch to rain or moisture.

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

1. Connect the *Power Cord* to the *Power* port of each TOUGHSwitch.

2. Attach the TOUGHSwitch PoE CARRIER to the rack using the four *Phillips Screws*. (If the rack has square slots, then use the *Cage Nuts* with the *Phillips Screws*.)
3. Attach the top portion of the faceplate at a slight angle, and then snap on the bottom portion. Secure the faceplate to the TOUGHSwitch PoE CARRIER using the two Flathead Screws.

4. Connect the other end of each Power Cord to a power outlet.
Daisy-Chain (Optional)

All data ports are available as uplink ports. If you want to daisy-chain TOUGHSwitch A and B, we recommend that you connect an Ethernet cable from port 8 of TOUGHSwitch A to port 1 of TOUGHSwitch B.

Note: PoE is disabled by default on all numbered ports and is not available on the Management port. To enable PoE on the appropriate ports, use the Ports tab in the Configuration Interface.
Accessing the Configuration Interface

Connect to the Configuration Interface by performing the following steps:

1. Ensure that your computer is connected to the Management port on the TOUGHSwitch.

   **Note:** By default, you can configure the TOUGHSwitch via any port; however, we recommend the Management port. (Access to the Configuration Interface can be limited to the Management port only. You can configure this setting on the Device tab.)

2. Configure the Ethernet adapter on your computer with a static IP address on the 192.168.1.x subnet (e.g., 192.168.1.100).

3. Launch your web browser. Type `https://192.168.1.20` 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.

The Configuration Interface will appear, allowing you to customize your settings as needed.
Configuring PoE Settings

**WARNING:** Before activating PoE, ensure that the connected device supports passive PoE and the supplied voltage. By default, PoE is off on each port.

1. Click the **Ports** tab.

2. On the **Ports** tab, select the Ethernet port you want to configure. Select the appropriate **PoE Status** setting, and then click **Save Changes**.

The PoE LED on the Ethernet port will confirm the PoE setting.

For detailed instructions on configuring other features, please refer to the TOUGHSwitch PoE User Guide available at [documentation.ubnt.com/toughswitch](http://documentation.ubnt.com/toughswitch)
# Specifications

## TOUGHSwitch PoE CARRIER

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>480 x 44.5 x 186 mm (18.9 x 1.75 x 7.32&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>3.95 kg (8.71 lb)</td>
</tr>
<tr>
<td>Hardware Configuration</td>
<td>(2) 8-Port TOUGHSwitch PoE PROs</td>
</tr>
<tr>
<td>Mounting</td>
<td>19&quot; 1U Rack-Mount</td>
</tr>
</tbody>
</table>

## 8-Port TOUGHSwitch PoE PRO*

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Input</td>
<td>110-120VAC / 210-230VAC</td>
</tr>
<tr>
<td>Max. Power Consumption</td>
<td>150W</td>
</tr>
<tr>
<td>PoE Out Voltage Range</td>
<td>45-48VDC / 22-24VDC</td>
</tr>
<tr>
<td>Max. PoE Wattage Per Data Port</td>
<td>11.5W (24V) 23W (48V)</td>
</tr>
<tr>
<td>ESD Rating</td>
<td>24 kV Air/Contact</td>
</tr>
<tr>
<td>PoE Method</td>
<td>Passive</td>
</tr>
<tr>
<td>Button</td>
<td>Reset</td>
</tr>
<tr>
<td>USB Port</td>
<td>2.0 Type A (Reserved for Future Use)</td>
</tr>
<tr>
<td>Processor</td>
<td>MIPS 24K, 400 MHz</td>
</tr>
<tr>
<td>System Memory</td>
<td>64 MB</td>
</tr>
<tr>
<td>Code Storage</td>
<td>8 MB</td>
</tr>
<tr>
<td>Certifications</td>
<td>CE, FCC, IC</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-25 to 55° C (-13 to 131° F)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>90% Noncondensing</td>
</tr>
<tr>
<td>PoE Configurable Per Port</td>
<td>N/A</td>
</tr>
<tr>
<td>Management Port</td>
<td>Off/24V/48V</td>
</tr>
<tr>
<td>Data Port</td>
<td></td>
</tr>
<tr>
<td>LEDs Per Port</td>
<td>Power/Link</td>
</tr>
<tr>
<td>Management Port</td>
<td>PoE, Speed/Link/Activity</td>
</tr>
<tr>
<td>Data Ports</td>
<td></td>
</tr>
<tr>
<td>Networking Interfaces</td>
<td>(1) 10/100 Ethernet Port</td>
</tr>
<tr>
<td>Management Port</td>
<td>(8) 10/100/1000 Ethernet Ports</td>
</tr>
<tr>
<td>Data Ports</td>
<td></td>
</tr>
</tbody>
</table>

* Specifications apply to each 8-Port TOUGHSwitch PoE PRO unit.
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

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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Limitation of Liability

EXCEPT TO THE EXTENT PROHIBITED BY LOCAL LAW, IN NO EVENT WILL UBIQUITI OR ITS SUBSIDIARIES, AFFILIATES OR SUPPLIERS BE LIABLE FOR DIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES (INCLUDING LOST PROFIT, LOST DATA, OR DOWNTIME COSTS), ARISING OUT OF THE USE, INABILITY TO USE, OR THE RESULTS OF USE OF THE PRODUCT, WHETHER BASED IN WARRANTY, CONTRACT, TORT OR OTHER LEGAL THEORY, AND WHETHER OR NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
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 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.
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 le 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

<table>
<thead>
<tr>
<th>Language</th>
<th>Translation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Česky</td>
<td>UBIQUITI NETWORKS tímto prohlašuje, že toto UBIQUITI NETWORKS zařízení, je ve shod se základními požadavky a dalšími příslušnými ustanoveními směrnic 2014/30/EU, 2014/35/EU.</td>
</tr>
<tr>
<td>Dansk</td>
<td>Hermed, UBIQUITI NETWORKS, erklærer at denne UBIQUITI NETWORKS enhed, er i overensstemmelse med de væsentlige krav og øvrige relevante krav i direktiver 2014/30/EU, 2014/35/EU.</td>
</tr>
<tr>
<td>Nederlands</td>
<td>Hierbij verklaart UBIQUITI NETWORKS, dat deze UBIQUITI NETWORKS apparaat, in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijnen 2014/30/EU, 2014/35/EU.</td>
</tr>
<tr>
<td>English</td>
<td>Hereby, UBIQUITI NETWORKS, declares that this UBIQUITI NETWORKS device, is in compliance with the essential requirements and other relevant provisions of Directives 2014/30/EU, 2014/35/EU.</td>
</tr>
<tr>
<td>Eesti</td>
<td>Käesolevaga UBIQUITI NETWORKS kinnitab, et antud UBIQUITI NETWORKS seade, on vastavus olulistele nõuetele ja teistele asjakohastele sätetele direktiivide 2014/30/EL, 2014/35/EL.</td>
</tr>
<tr>
<td>Suomi</td>
<td>Tätä UBIQUITI NETWORKS vakuuttaa, että tämä UBIQUITI NETWORKS laite, on yhdenmukainen olennaisten vaatimusten ja muiden sitä koskevien direktiivien 2014/30/EU, 2014/35/EU.</td>
</tr>
<tr>
<td>Français</td>
<td>Par la présente UBIQUITI NETWORKS déclare que l'appareil UBIQUITI NETWORKS, est conforme aux exigences essentielles et aux autres dispositions pertinentes des directives 2014/30/UE, 2014/35/UE.</td>
</tr>
<tr>
<td>Ελληνική</td>
<td>Δια του παρόντος, UBIQUITI NETWORKS, δηλώνει ότι αυτή η συσκευή UBIQUITI NETWORKS, είναι σε συμμόρφωση με τις βασικές απαιτήσεις και τις λοιπές σχετικές διατάξεις των οδηγιών 2014/30/ΕΕ, 2014/35/ΕΕ.</td>
</tr>
<tr>
<td>Magyar</td>
<td>Ezennel UBIQUITI NETWORKS kijelenti, hogy ez a UBIQUITI NETWORKS készülék megfelel az alapvető követelményeknek és más vonatkozó 2014/30/EU, 2014/35/EU irányelvek rendelkezéseit.</td>
</tr>
<tr>
<td>Íslenska</td>
<td>Hér, UBIQUITI NETWORKS, því yfir að þetta UBIQUITI NETWORKS tæki er í samræmi við grunnkröfur og önnur viðeigandi ákvæði tilskipana 2014/30/ESB, 2014/35/ESB.</td>
</tr>
<tr>
<td>Italiano</td>
<td>Con la presente, UBIQUITI NETWORKS, dichiara che questo dispositivo UBIQUITI NETWORKS, è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti delle direttive 2014/30/UE, 2014/35/UE.</td>
</tr>
<tr>
<td>Latvietiškai</td>
<td>Ar šo, UBIQUITI NETWORKS, deklarē, ka UBIQUITI NETWORKS ierīce, ir saskaņā ar būtiskajām prasībām un citiem attiecīgiem noteikumiem Direktīvās 2014/30/ES, 2014/35/ES.</td>
</tr>
</tbody>
</table>
UBIQUITI NETWORKS declares that this UBIQUITI NETWORKS device is in conformity with the essential requirements and other applicable provisions of directives 2014/30/UE, 2014/35/UE.

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