



# Tempered

## QUICK START

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## HIPswitch-75 Series

The HIPswitch-75 is a small form-factor IoT edge gateway designed for non-Industrial environments which facilitates private overlay networks between customer-provided equipment and devices.

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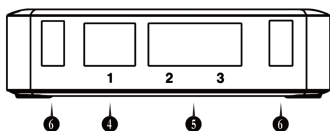
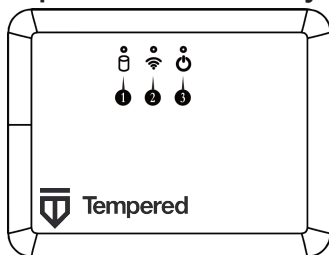
RoHS  
COMPLIANT



## MODELS

Part Number	Model	Ethernet Ports	Wi-Fi
PLF-0115-02	HIPswitch-75e	3	No
PLF-0122-01	HIPswitch-75w	3	Yes

## Top and Front Panel Layouts



1. Activity/Status LED
2. WiFi LED
3. Power LED
4. Port 1 (default: shared network)
5. Port 2-3 (default: secure network)
6. USB (not supported)

## Specification

Ethernet Ports	3 x 10/100/1000 Mbps RJ-45 ports	Operating Temp	0° to 40° C (32° to 104° F)
Controls	1x Micro USB console port	Environment	For indoor use only
Displays	1x Power LED 1x WiFi LED 1x Activity/Status LED	Dimensions	W: 110mm (4.33") D: 84.5mm (3.33") H: 29.5mm (1.16")
DC Power Input	12V DC, 2A max 5.5x2.1mm power input	Weight	153 g (.337 lbs.)
Regulatory Approvals	CE (75e/w)	EN 55032:2015, EN 55035:2017, EN 55024:2010, EN 6100-3-2:2014, EN 61000-3-3:2013, EN 60950-1:2006+A2:2013	
	CE RED (75w)	EN 300 328, EN 301 893, EN 301 489-1, EN 301 489-3, EN 301 489-17, EN 62311:2008	
	FCC (75e)	Part 15B class B	IC (75e) CAN ICES-3 (B)/NMB-3(B)
	FCCID (75w)	2AE4M-HS75W	IC ID (75w) 20900-HS75W

## Provisioning the HIPswitch-75

The Conductor is the central configuration and management point for all HIPservices. For provisioning, a HIPswitch must be able to locate the Conductor on your shared network. The fastest method is to connect the HIPswitch via the console port.

1. Connect a computer to the HIPswitch-75 using the micro USB console port located on the back of the HIPswitch.
2. Using a terminal (macOS, Linux) or terminal emulator (Windows), connect to the HIPswitch using baud 115200.
3. At the login prompt, enter *hipsh*, then *hipsh* as the password.
4. At the *hipsh* prompt, enter *conductor set https://<conductor address>:<port>*
5. At the *hipsh* prompt, enter *reboot*

After rebooting, the HIPswitch should now be recognized in the Conductor UI.

## Regulatory Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Industry Canada's licence-exempt RSSs. 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.

Le présent appareil est conforme aux CNR d'Industrie 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'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

**Radiation Exposure:** This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20cm between the radiator and your body and must not be co-located or operating in conjunction with any other antenna or transmitter.

**Déclaration sur l'exposition aux rayonnements RF:** L'autre utilisé pour l'émetteur doit être installé pour fournir une distance de séparation d'au moins 20 cm de toutes les personnes et ne doit pas être colocalisé ou fonctionner conjointement avec une autre antenne ou un autre émetteur.



### Safety and Warnings

**Elevated Operating Ambient Temperature:** If installed in a closed environment, make sure the operating ambient temperature is compatible with the maximum ambient temperature specified by the manufacturer.

**Reduced Air Flow:** Make sure the amount of air flow required for safe operation of the equipment is not compromised during installation.

Tempered Networks, Inc declares that the HIPswitch-75w is in compliance with Directive 2014/53/EU. This device may be used in all EU member states subject to the following condition: This device may only be used indoors.

The full text of the EU declaration of conformity is available at the following Internet address: <https://repo.tempered.io/DoC/75w>

## FCC WARNING

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.

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

The use of the 5150 – 5250 MHz band is restricted to indoor use only. This restriction will be applied in all member states.

## IC Caution:

This device complies with Industry Canada's licence-exempt RSSs. 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.

To maintain compliance with RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Le présent appareil est conforme aux CNR d'Industrie 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, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Pour maintenir la conformité aux directives d'exposition aux radiofréquences, cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.