

Red Hub User Manual



Red Hub Manual

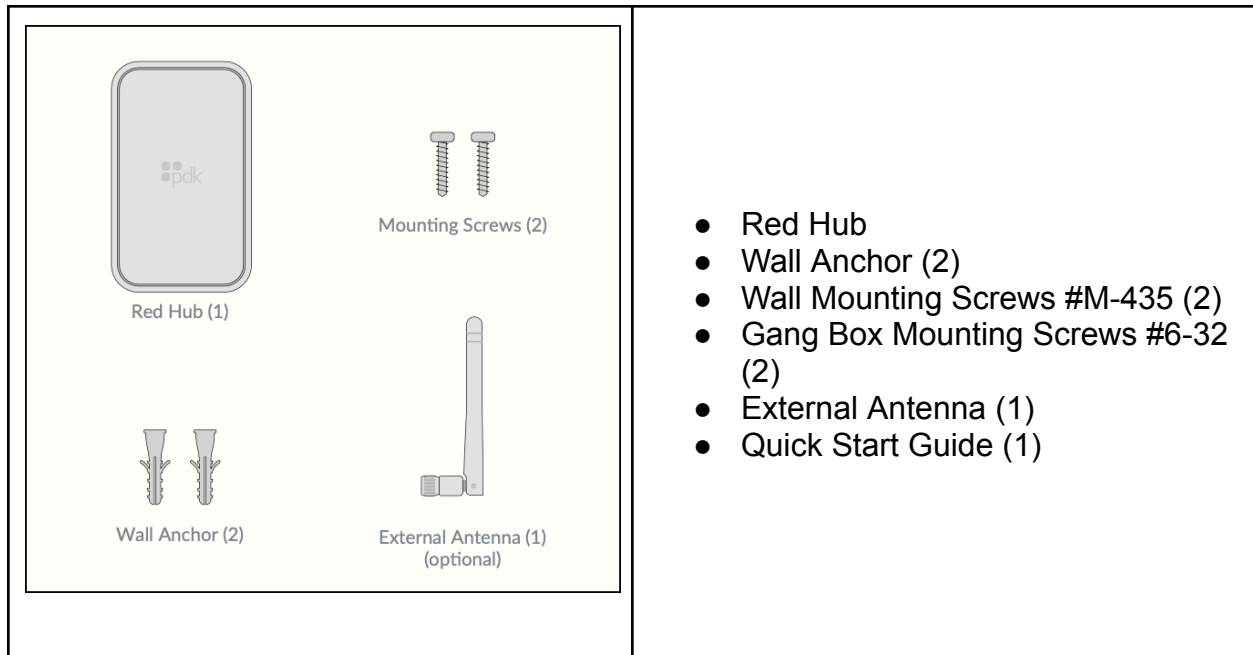
Rev: 1.0.0

Part Number: **RHUB**

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Package Contents



Specifications

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Communication Features

-
- Ethernet: 10/100Mbps (Hub to Cloud Node)
 - Bluetooth Low Energy (2.4 GHz) (Hub to Lock)
 - End-to-end AES 128-bit encryption

Environmental

-
- Indoor Use Only
 - Operating Temp -20C - +45C
 - 10% - 90% relative humidity (non-condensing)

Enclosure

- Dimensions (W x H x D) 4" x 2.5" x 1.5"

Compliance

- Conforms to FCC Part 15

Installation

This section outlines the steps for installing the ProdataKey **Red Hub**. Before beginning, read all instructions thoroughly and ensure you understand the Safety Information.

WARNING: Disconnect ethernet and power before servicing the ProdataKey Red Hub.

IMPORTANT: A ProdataKey **Cloud Node** is required for the **Red Hub** to function.

Pre-Installation Requirements Mounting Instructions

Pre-Installation Requirements

Power

- Power over Ethernet (PoE)
- Optional: 12-24VDC (power supply not included)

Recommended Tools

- Phillips head screwdriver
- Drill and $\frac{3}{8}$ " Drill Bit
- Pencil (to mark hole positions on the mounting surface)

Mounting Instructions

- Mount the **Red Hub** as centrally located as possible on a wall or ceiling.
- Install both the **Red Hub** and **Cloud Node** in a secure, environmentally controlled area.

These instructions enable you to easily and securely fasten the Hub to a wall or ceiling. Before beginning, ensure you have the package contents, tools, and necessary materials for the installation on an appropriate surface (e.g., drywall, wood).

- Use the **Red Hub** backplate to mark the positions for screws holes and the Ethernet cable to pass through on the wall. Drill holes at the marked location. If mounting to drywall, insert the anchors into the holes to ensure a secure installation.
- Align the backplate with the holes, then fasten the **Hub** to the wall or ceiling using the provided screws to ensure it is securely mounted.

NOTES:

- Mounting the **Hub** higher increases its range for better coverage
- The **Hub** can communicate with **Wireless Locks** up to 100 feet line of sight. Environmental factors may reduce this range.

Connections

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Hub Overview



Connections

External Antenna (Optional)

- Remove the antenna opening cover.
- Attach the antenna supplied with the Hub.

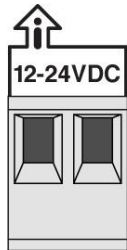
NOTE: The orientation of the antenna will affect the connection strength. Adjust as needed for optimal performance.

Auxiliary Power (Optional)

- If PoE is not being used, connect power to the Auxiliary Power Terminals. Auxiliary power is not required if you are using power from a PoE connection.

- Installing Auxiliary Power when PoE is available offers redundancy in the event of power loss.

Input 12-24VDC using an 18/2 or wire. Wire runs less than 100 feet, 22 can be used



2-Pin Connector	Port	PIN	Notes
Controller Power Input	+	1	12/24 VDC Positive
Controller Power Input	GND	2	12/24 VDC Negative

Important Note: Power input to the **Red Hub** is polarity-sensitive, meaning it has fixed positive and negative connections.

LED Indicators

LED indicators are shown on the **Hub** for Power and Status.

LED	Light	Status
Power	Solid	Power On
Power	Off	No Power
Status	Solid Green	Normal Operation
Status	Solid Yellow	Starting up
Status	Blinking Yellow 2x per second	Connected to the Network, no IP address

Status	Blinking Yellow 1x per second	Obtained IP address; not connected to Cloud Node
Status	Off	Link down (powered, no Ethernet connection)
Status	Solid Blue	Maintenance Operation

Compliance Information

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Notices

- The ProdataKey **Red Hub** is intended for indoor use only.
- The ProdataKey product shall be installed by a trained professional.
- The ProdataKey product shall be used in compliance with local laws and regulations.
- Mount in a dry, well-ventilated, secure environment. Do not install the **Hub** on unstable brackets, surfaces, or walls.
- Use only applicable tools when installing the ProdataKey product. Using excessive force while mounting the product could cause damage.
- Avoid exposing ProdataKey product to shocks or heavy pressure.
- Do not use chemicals, caustic agents, or aerosol cleaners to clean the product. Use a clean cloth dampened with pure water for cleaning the exterior of the enclosure.
- Do not attempt to repair the product by yourself. Contact ProdataKey Support or your ProdataKey authorized distributor for service matters.
- Protect the power cord, Ethernet cable, and transformer wires from being walked on or pinched, particularly where the wiring exits the box.
- 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. Operation 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.

FCC Compliance

Red Hub RHUB

FCC Compliance Statement: 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.
2. This device must accept any interference received, including interference that may cause undesired operation.

ProdataKey

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To ensure compliance with FCC and ISED RF exposure requirements, this device must be installed to provide a minimum of 20cm between the device and people.

Pour garantir la conformité aux exigences d'exposition RF de la FCC et d'ISED Canada, cet appareil doit être installé de manière à laisser un minimum de 20 cm entre l'appareil et les personnes.

Liability

ProdataKey makes no warranty of any kind with regard to the material contained within this document, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. ProdataKey shall not be liable, nor responsible for incidental or consequential damages in connection with the furnishing, performance, or use of this material. This product is only to be used for its intended purpose.

Every care has been taken in preparing this document. Please feel free to inform ProdataKey Support of any inaccuracies or omissions in this documentation. We welcome your feedback and suggestions. ProdataKey cannot be held responsible for any technical or typographical errors and reserves the right to make changes to the product and documentation without prior notice.

Intellectual Property Rights

Patents Pending - ProdataKey has intellectual property rights relating to technology embodied in the product described in this document.

Hardware Notices

This equipment must be installed and used in strict accordance with the instructions given in the user documentation. This equipment contains no user-serviceable components. Wiring methods shall be in accordance with the National Electrical Code, ANSI/NFPA 70. Unauthorized equipment changes or modifications will invalidate all applicable regulatory certifications and approvals.

Use only accessories that comply with the technical specification of the product. These can be provided by ProdataKey or an approved third party. Use only spare parts provided by or recommended by ProdataKey.

After the system is installed and working properly, no further maintenance or testing is required.

Do not attempt to repair the product by yourself. Contact ProdataKey Support or your ProdataKey authorized distributor for service matters.

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Regulatory Information

Electromagnetic Compatibility (EMC)

This equipment has been designed and tested to fulfill applicable standards for

- Radio frequency emissions when installed according to the instructions and used in its intended environment.
- Immunity to electrical and electromagnetic phenomena when installed according to the instructions and used in its intended environment.

Safety

This manual has been prepared to help you install the product. Read through the installation instructions carefully before installing the product. Keep the guide for future installation and maintenance reference.

This product complies with IEC/EN/UL 60950-1, Safety of Information Technology Equipment. If your connecting cables are routed outdoors, the product shall be grounded either through a shielded network cable (shielded twisted pair) or another appropriate method.

The power supply used with this product shall fulfill the requirements for Safety Extra Low Voltage (SELV) and Limited Power Source (LPS) according to IEC/EM/UL 60950-1

Disposal and Recycling

When this product has reached the end of its useful life, dispose of it according to local laws and regulations. For information about your nearest designated collection point, contact your local authority responsible for waste disposal. In accordance with local legislation, penalties may be applicable for incorrect disposal of this waste.

Supported Wireless Locks

ProdataKey Red Hub is for use exclusively with **ProdataKey Red Wireless Locks**. These locks communicate wirelessly with the **Red Hub** for seamless integration and centralized control.

NOTE: Only **ProdataKey Red Wireless Locks** are supported. Other wireless locks are not compatible.

PDK Certification and Tutorials

Visit ProdataKey accesscontrol101.com for certification training and tutorials.

Manufacture's Limited Warranty

One to five-year warranty against defects in materials and workmanship. Full details at prodatakey.com/warranty

Support / Sales

Technical Support:

- **Phone:** 801.317.8802 option #2
- **Email:** support@prodatakey.com

Sales:

- **Phone:** 801.317.8802 option #1
- **Email:** sales@prodatakey.com

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Red Hub Instruction Manual

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