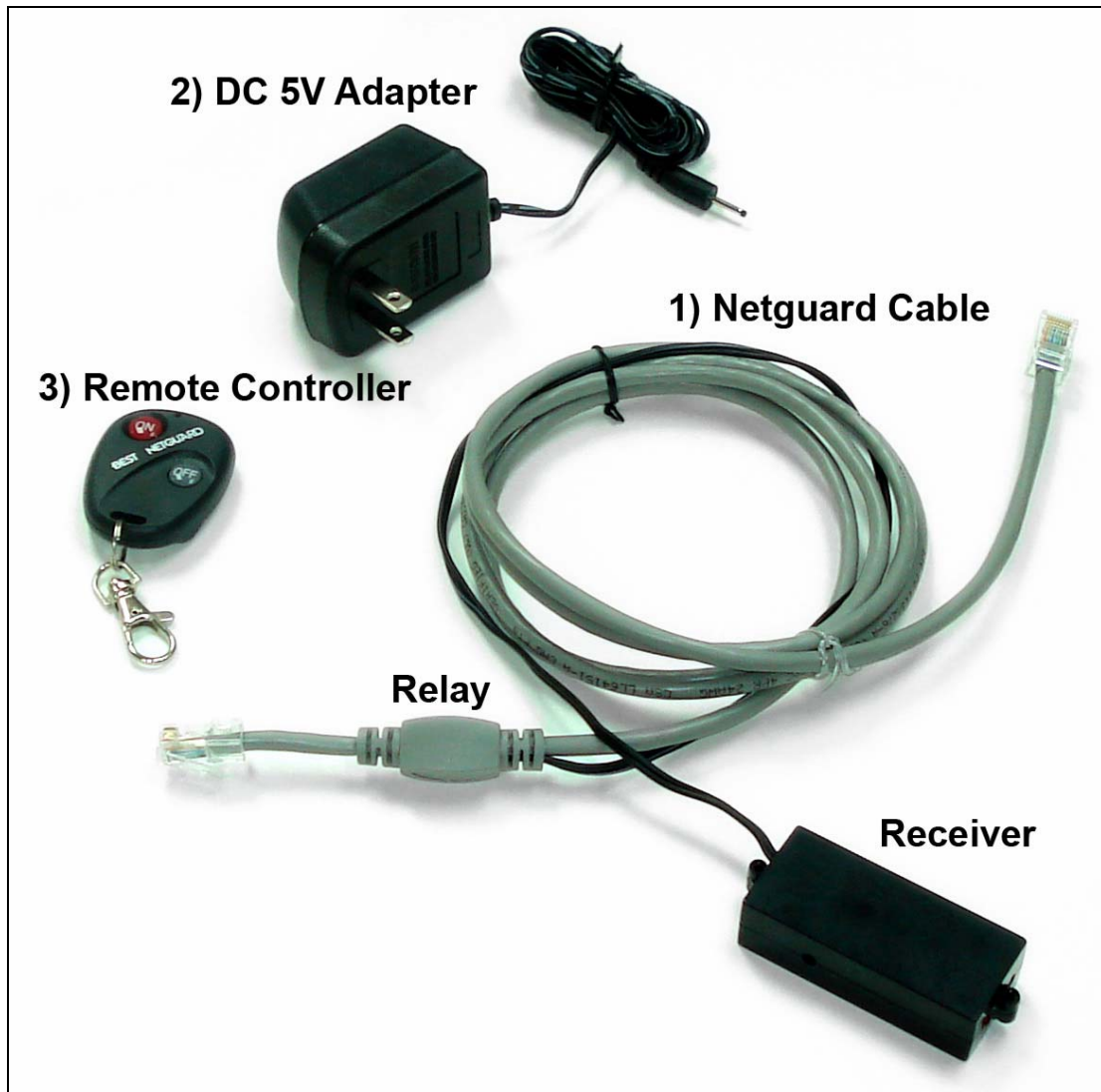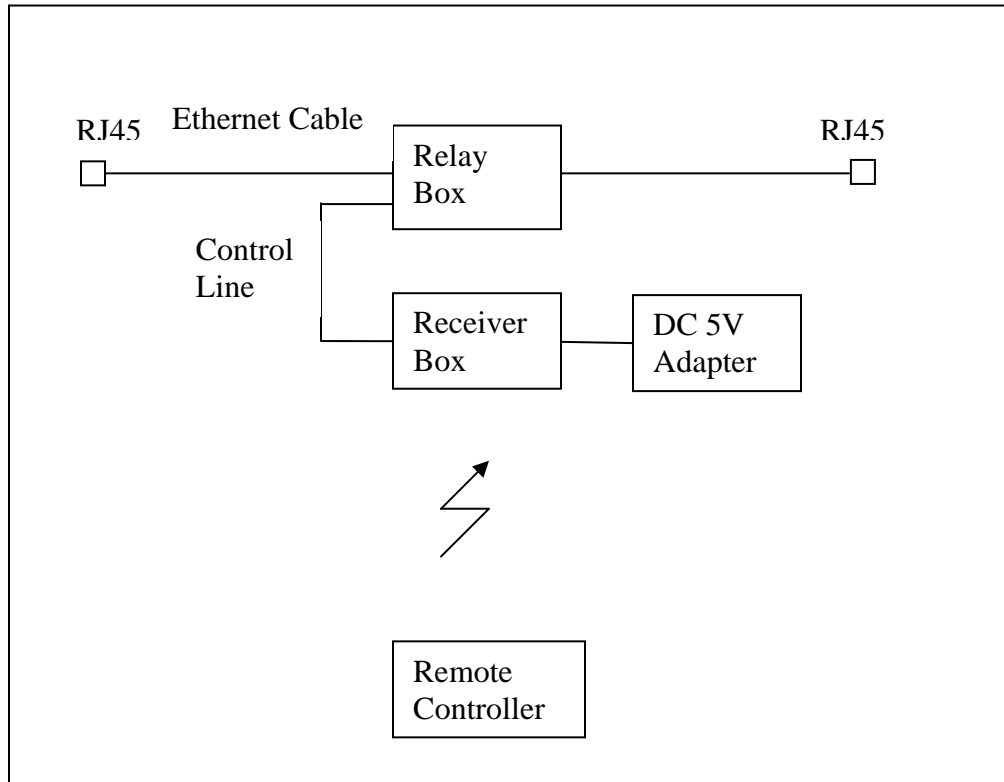# Netguard User Manual

Introduction

The Netguard is used to control the access to Internet. This manual shows how to setup and operate the Netguard.

Package

1. One Netguard cable with attached Relay box and Receiver box.
2. One AC120V-DC5V adapter.
3. One Remote Controller.

Block Diagram

Block Description

Relay Box
The solid relays inside the Relay Box control the connections of RJ45 cable. Solid relays are controlled by Receiver Box through control line.

Receiver Box
The receiver circuit inside Receiver Box decodes the RF signal transmitted by Remote Controller and send out corresponding command through control line to control solid relays. Receiver circuit is powered by DC5V adapter.
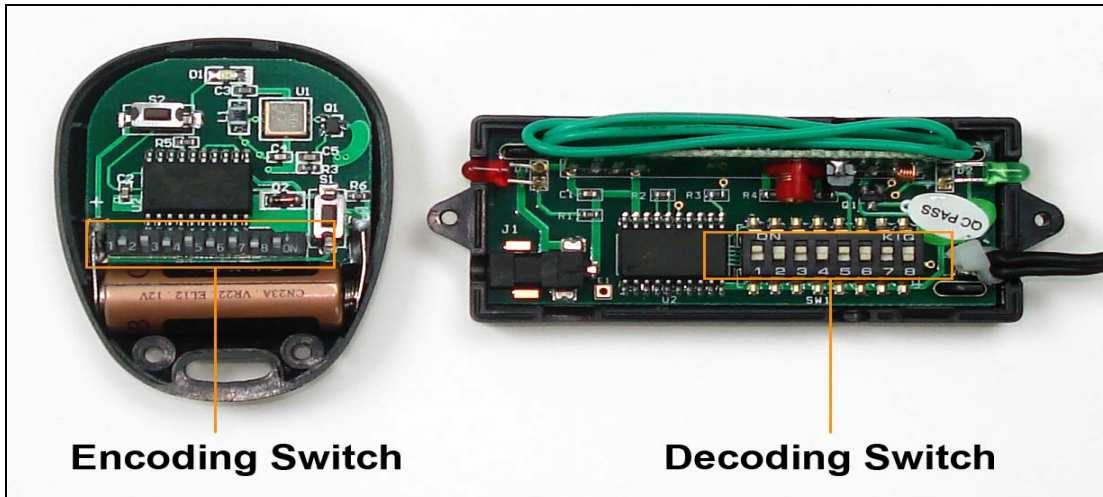
Remote Controller
When ON or OFF button on Remote Controller be pressed, the Remote Controller transmits encoded RF signal. The RF carrier frequency is 433.92 MHz. Remote Controller is powered by one 12V alkaline battery.
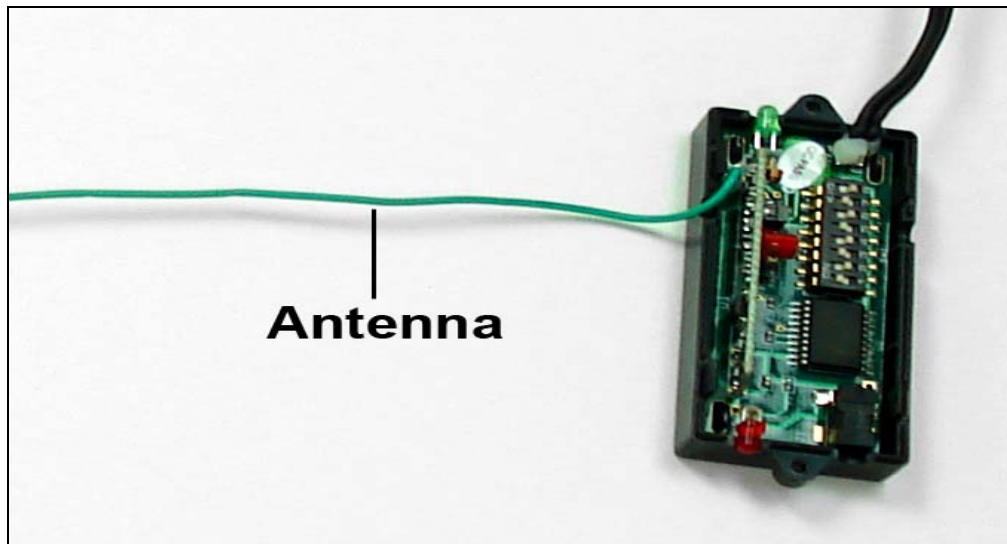
Setup

1. Encoding and Decoding switch setup (optional)

There is one pair of 8-position switches for netguard encoding and decoding. One is inside the remote controller; the other is inside the receiver. The two switches can be set to be in any positions, but the position settings of them must be the same.

Encoding Switch   **Decoding Switch**

2. Antenna setup

There is an antenna (a piece of green wire) inside the receiver. It is convenient to pull it out through the hole on the side of the receiver case. With the antenna outside, the Netguard can be operated by the remote controller for further distance. For most applications, it is not necessary to pull the antenna outside the receiver box. Please refer to the specifications for operation distance information.

Antenna

Operation

1. Connect the Netguard cable with the target computer and router (or other Ethernet outlet).
2. Connect DC5V adapter to Netguard receiver. The power LED should be on.
3. Press the OFF(stands for block off) button of the remote controller, the status LED on the receiver turns on, indicating that it is ready to access Internet.
4. Press the ON (stands for block on) button of the remote controller, the status LED on the receiver turns off, indicating that access Internet is blocked.

Specifications

- Operation Distance
  With the antenna inside the receiver box, the netguard can be operated by the remote controller with distance no less than 20 meters.
  With the antenna outside the receiver box, the operation distance is no less than 30 meters.
- Power Supply for AC/DC Adapter
  Input: $AC120V\pm10\%$, 60Hz, 10W
  Output: DC5V, 200mA
- Cable Length
  6 feet.

FCC Rules

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.

FCC Statement

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.

Any changes or modification not expressly approved by the party responsible could void the user's authority to operate the device.