

# RA-R436 “Reelceiver” Datasheet

## Product Overview

The RA-R436 “Reelceiver” is a Bluetooth Low Energy scanner/observer and beacon with “reel” connectivity options.

“Reelceivers” can be daisy-chained over long distances using standard network cables which provide both serial communications and power.



**Top view**



**Bottom view**

## Technical Specifications

### Physical

Dimensions (L x W x H):	77mm x 32mm x 25mm
Weight:	32g
Material:	ABS Plastic (UL94 HB & RoHS compliant)
Colour:	White

## Connections

Reel uplink:	RJ-45 jack (serial communications and power)
Reel downlink:	RJ-45 jack (serial communications and power)

## Environmental

Operating temperature:	-40°C to +85°C (Industrial grade)
Outdoor capability:	Yes, with waterproof enclosure (not supplied)

## Power

Voltage:	5VDC to 45VDC
Current:	35mA (typical peak @12VDC)

## Bluetooth Low Energy Radio

Chipset:	Texas Instruments CC2541
Antenna:	Omni-directional ceramic, 0dBi peak gain
Firmware:	reelyActive custom (without Bluetooth stack)
Certifications:	QASRA-R426-01 (FCC) 10707A-RAR42601 (Industry Canada)
Compliance:	EN 300 328 V1.8.1 compliant (ETSI)

## Reel Interface

Serial protocol:	RS-422
Data rate:	230.4kbps
Max hop distance:	100m (typical)