CROSS-BAND REPEATER

FOR DUAL FREQUENCY REPEATING APPLICATIONS

CBR

Overview

The Cross Band Repeater (CBR) is used to repeat telegrams from one EnOcean standard frequency to another, bi-directionally. This frequency hopping allows telegrams in one frequency band to be received in another, secondary band.

Applications for the CBR include projects in North America where 315MHz products have been installed and replacement product has become difficult to source. Facilities with existing 315MHz product may also wish to expand their wireless control systems and take advantage of the growing selection of 902MHz products. There are also many products manufactured in other markets unique to a specific frequency. The CBR allows these products to be easily integrated into any EnOcean eco-system.

The CBR utilizes the repeating function within the EnOcean protocol supporting and maintaining the single and dual hop telegram repeating restrictions.

The CBR supports repeating of standard EnOcean telegram types including *teach* or *learn-in* commands

Configuration of the CBR is easy using the button interface on the device face. Bi-color LEDs provide visual indication of telegram traffic and CBR operation

The CBR is offered in cross-band frequency bi-directional hopping in:

- 315 MHz and 902 MHz
- 868 MHz and 902 MHz
- 315 MHz and 928 MHz

Hardware Specifications

Power Supply	9-34 VDC or 12-24 VAC
Power Consumption	750 mW maximum

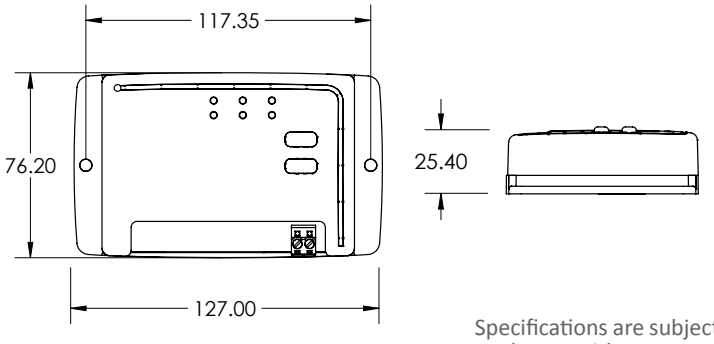
Communications

Radio Frequency	Dependent upon model
Antennas	Integrated whip
Transmission Range	24m (80 ft) - commercial office space (typical), up to 100 m (330 ft) line of sight
Inputs	Transmit Enable/Disable buttons
Outputs	Yellow TX, Green TX Enable and Red TX LEDS

Mechanical Specifications

Operating Temp.	-10°C to 45°C (14°F to 113°F)
Relative Humidity	5% to 95% RH (non-condensing)
Weight	111 g (3.9 oz)
Dimensions	76.2 x 127.0 x 25.4mm (3.0 x 5.0 x 1.0”)

Dimensional Drawings



Agency Listing & Compliance

Remote Control Transmitter (902MHz and 315MHz)

FCC Part 15.231 -

IC RSS-210

Japanese Type Approval (928 MHz)

ARIB STD-T108

Specifications are subject to change without notification.
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Ordering Information

Model	Description
CBR-CU	Cross-Band Repeater, 315-902 MHz
CBR-YU	Cross-Band Repeater, 868-902 MHz
CBR-CJ	Cross-Band Repeater, 315-928 MHz

Echoflex Solutions, Inc.
#1, 38924 Queens Way | Squamish | BC | Canada | V8B 0K8
Toll Free: 888-324-6359 | Phone: (778) 733-0111 | Fax: (604) 815-0078
Email: info@echoflexsolutions.com | www.echoflexsolutions.com