

# TECHNICAL DATASHEET

## BRIDGE 4G

MODEL NUMBER: **BG2350—00—0000**

### GENERAL

Bridge is a multi-frequency radio transceiver that connects Detectors with Command Center. Bridge combines three modules: short-range radio, long-range radio and battery.

Operating temperature range	-40°C to +60°C
IP rating	X7 (waterproof)
Weight (including battery)	1400 g
Dimensions	95x75x295mm



## SHORT RANGE RADIO

Short-range radio is used for two-way communication between the Bridge and the Detectors. Bridge has a 2,4 GHz radio module for communication with Detectors.

Short-range 2.4GHz radio is used for two-way communication between the Detector and other Reconeyez devices.

Standard	IEEE 802.11.4
Bandwidth	2 Mhz
Data rate	250 kbps
Modulation	QPSK
Antenna	Omnidirectional (external)
EIRP	12 dBm
Security	ECC (secp160r1)
Authentication & encryption	AES 128
Max LOS distance	500 m
Network topology	mesh

## LONG RANGE RADIO

Long-range radio is used for two-way communication between the Bridge and the Command Center server. Bridge uses 4G module for communication with the server.

Module type	LE910C4-NF
Region	North America
4G bands	B2, B4, B5, B12, B13, B14, B66, B71
3G bands	B2, B4, B5
2G bands	-
Antenna	Omnidirectional (internal)

## **BATTERY**

Bridge is powered from 4 rechargeable Li-Ion batteries.

Voltage	3.7V
Capacity	10,2 Ah x 4
Lifetime	Up to 150 days standby
Time to recharge	12 hours (depending on charge type)
Auxiliary solar panel	optional

## **FCC Compliance Statement**

**FCC ID: 2AZIM-BRIDGE4G**

**Contains FCC ID:RI7LE910CXNF**

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.

**CAUTION:** The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications 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.

This equipment has been tested and meets applicable limits for radio frequency (RF) exposure. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### **RF exposure statement**

This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

### **Notice of internal Labeling**

This equipment has internal labeling, in the product battery compartment, and the labeling is shown below here:

Defendec Ltd

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PRODUCT NAME: Bridge 4G

PRODUCT MODEL: BG2350—00—0000

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 ID: 2AZIM-BRIDGE4G

Contains FCC ID: R17LE910CXNF

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 reconeyez

**Supplier's Declaration of Conformity**  
**47 CFR § 2.1077 Compliance Information**

**Product Name:** Bridge 4G

**Product Model:** BG2350—00—0000

**Manufacturer:**

Defendec Ltd  
Erika 14, C-entrance  
10416Tallinn, Harjumaa, Estonia  
[xxx@defendec.com](mailto:xxx@defendec.com)  
[www.defendec.com](http://www.defendec.com)

**Modular Components Used:**

NAME: LE910C4-NF  
MODEL: LE910C4-NF  
FCC ID: RI7LE910CXNF

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