

HOOPOSENSE TRACKER

INSTALLATION MANUAL

20
21



HOOPO SYSTEMS



HOOPOSENSE

INSTALLATION MANUAL



TABLE OF CONTENTS

●	General
●	Package Content
●	System Overview
●	Electrical
●	HoopSense Activation & Battery Operation / Replacement
●	Mechanical Specifications
●	Mounting Guidelines
●	Connectivity
●	Radio Compliance Statement



HOOPOSENSE

INSTALLATION MANUAL

1. GENERAL

This document describes the hoopoSense tracker, 503G1000-1A, installation instructions and battery installation/replacement.

2. PACKAGE CONTENTS

Each hoopoSense tracker delivered package contains:

- hoopoSense tracker
- 4 Cover screws
- 2 Mounting screws

3. SYSTEM OVERVIEW

The hoopoSense trackers are part of the hoopoLogic tracking system that includes a dedicated cloud-based application server. The hoopoSense tracker transmits various environmental and location parameters via LoRa and/or LTE CAT-M cellular communication channels.

4. ELECTRICAL

The hoopoSense trackers are powered by six (6) primary AA batteries. We recommend using Lithium-Ion L91 AA batteries by Energizer for optimal battery life and extended temperature range.



HOOPOSENSE

INSTALLATION MANUAL

FIGURE 1: HOOPOSENSE COVER
SCREWS



FIGURE 2: HOOPOSENSE COVER
AND SEALING RUBBER



5.

HOOPOSENSE ACTIVATION & BATTERY OPERATION / REPLACEMENT

Top Cover Removal

Remove the four top cover screws using
a #1 Philips head screwdriver.

5.1.

REMOVE THE TOP COVER.

Note: Pay attention to the sealing rubber on the
cover. In case the rubber has moved during the
cover removal- place it back in place.



HOOPOSENSE

INSTALLATION MANUAL



FIGURE 3: BATTERIES' POLARITY



5.2

BATTERIES INSTALLATION

Slide the batteries in pairs as depicted in the following picture:

- Note: Pay attention to the batteries' polarity.

5.2.1.

SLIDE THE BATTERIES IN PAIRS AS DEPICTED IN THE FOLLOWING PICTURE:

Note: Pay attention to the batteries' polarity.



HOOPOSENSE

INSTALLATION MANUAL



FIGURE 4: PLACING THE COVER



FIGURE 5: TOP COVER SCREWS



5.2.2.

TOP COVER RE-PLACEMENT

5.2.3.

PLACE AND HOLD THE TOP COVER ON THE ENCLOSURE.

- Note: Pay attention to the batteries' springs direction. Ensure rubber seal is in place.

5.2.4.

TIGHT THE 4 TOP COVER SCREWS USING A SIMPLE PHILIPS

Note: Do not overtight. Use tightening torque 1Nm maximum



HOOPOSENSE

INSTALLATION MANUAL



FIGURE 6: HOOPOSENSE SERIAL NUMBER



5.2.5.

BATTERY INDICATION

- 1-2 seconds after batteries installation, the hooposeSense tracker should beep- indicating proper batteries insertion.

5.2.6.

REPORT VERIFICATION

- 1-2 minutes after batteries installation, the hooposeSense tracker should report to the hooposeDashboard
- Note: First activation may take up to 4 minutes.



HOOPOSENSE

INSTALLATION MANUAL

5.2.7.

VERIFY ACTIVATION BY SEARCHING

Search for the hoopoSense tracker serial number (Shown as BCCDXXXX.

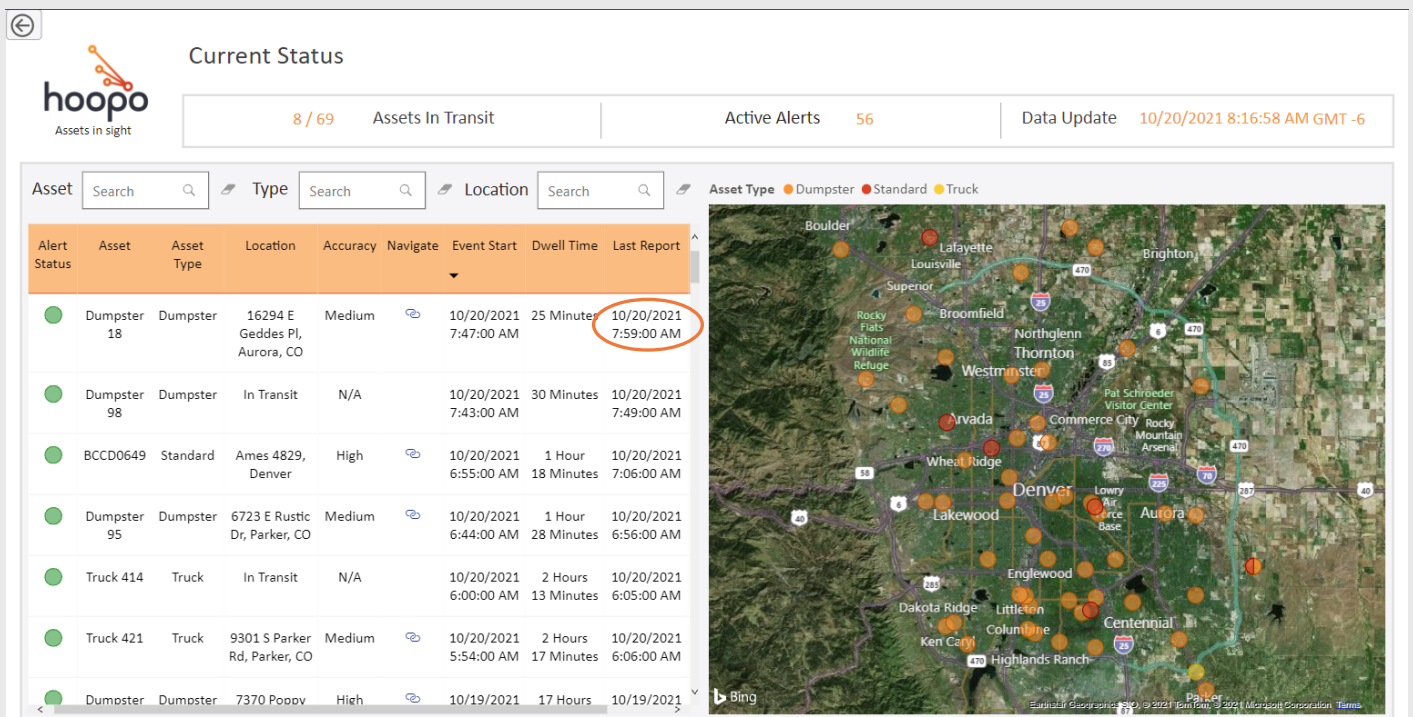
Printed on the hoopoSense tracker sticker, see image below) and then by

checking that the time appears in the “Last Report” Field (See image below)

is matching the actual activation time. Notice that other data fields might

show inaccurate data until the first proper utilization is done.

FIGURE 7: ACTIVATION INDICATION ON THE HOOPODASHBOARD



HOOPOSENSE

INSTALLATION MANUAL

6. MECHANICAL SPESIFICATIONS

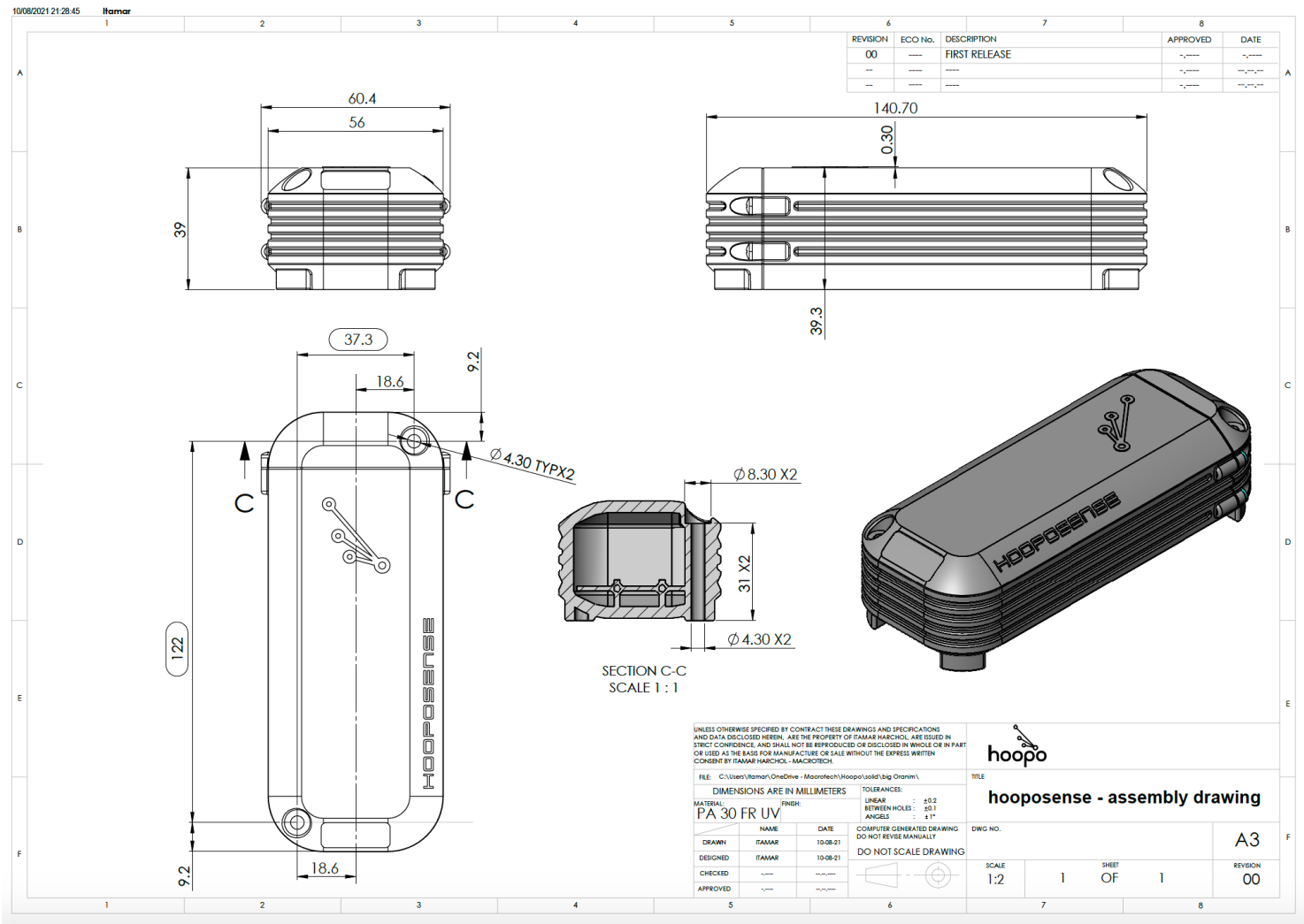


FIGURE 8: HOOPOSENSE OUTLINE DRAWING

HOOPOSENSE

INSTALLATION MANUAL

7.

MOUNTING GUIDELINES

The hoopoSense trackers should be ruggedly installed on top of various logistics assets such as various types of non-motorized ground support equipment, truck trailers, roll-off waste containers, and more.

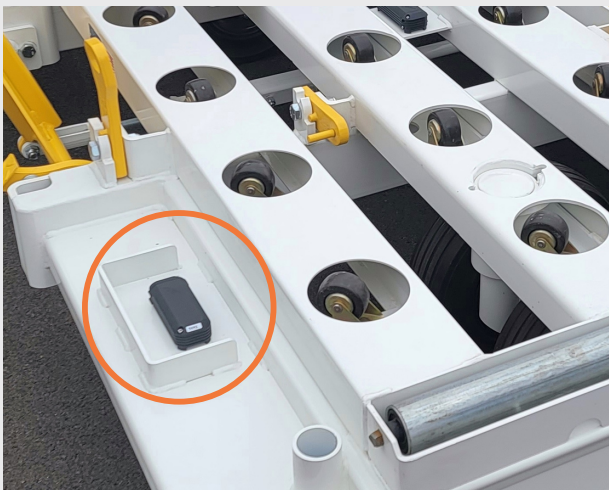
7.1.

OPTIMAL PLACEMENT OF THE TRACKER.

Optimize sky-view for better GPS positioning, and Cellular communication.

The hoopoSense tracker antennas are facing towards hoopo's logo on the unit. To allow high quality GPS reception, orient this face with a clear, unobstructed view of the sky.

FIGURE 9: HOOPOSENSE ORIENTATION



HOOPOSENSE

INSTALLATION MANUAL

7.2

TRACKER INSTALLATION

Using the supplied 2 screws, mount the hooposense tracker on your asset.

Do not exceed 3.0 Nm tightening torque.

8.

CONNECTIVITY

The hoopoSense trackers communicate via LTE CAT-M or LoRa.

9.

HOOPO DASHBOARD LOGIN

The hoopodashboard is created with a software called 'Power BI'. In the dashboard you'll see all the current, historical, and summarized data of your assets.



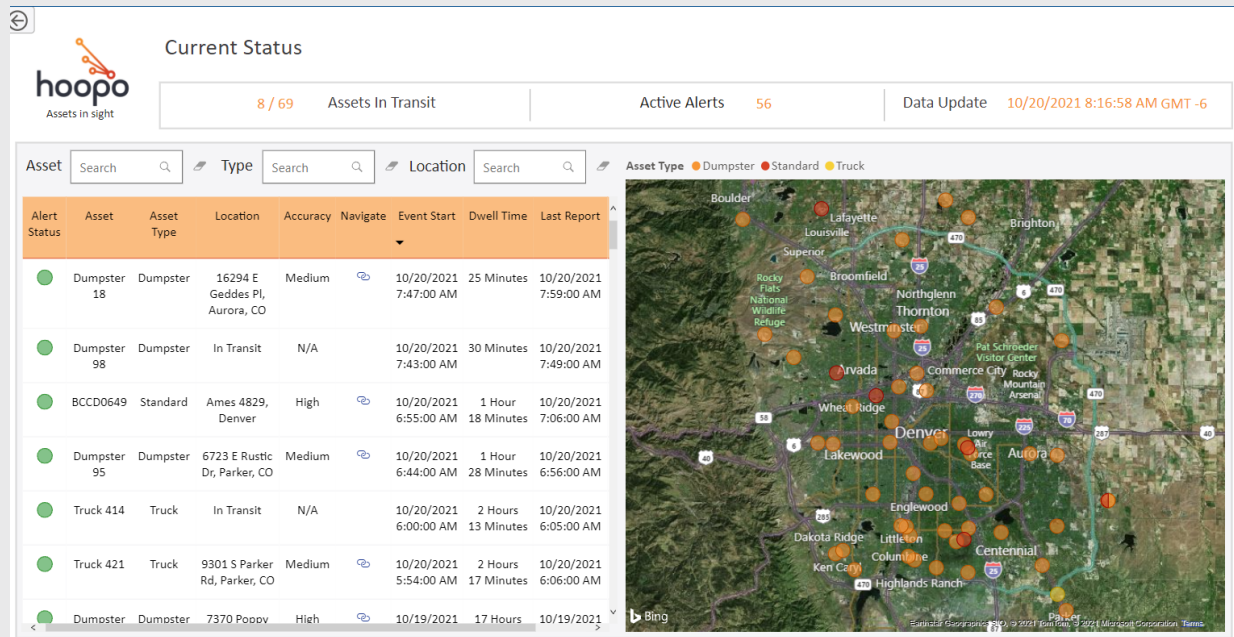
HOOPOSENSE

INSTALLATION MANUAL

LOGIN

- 9.1. Enter the dashboard by clicking on the link you've received from the hoopo team.
- 9.2. Click on the Log in button and insert the username and password you've received from the hoopo team.
- 9.3. You've now successfully entered the hoopoDashboard.

FIGURE 10: HOOPODASHBOARD

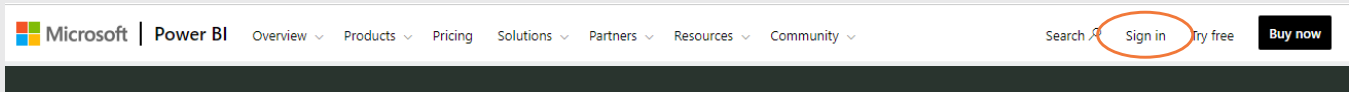


- 9.4. You can also access Power BI by searching for it in the web browser search bar. If so, click on the 'sign in' in the top of the page

HOOPOSENSE

INSTALLATION MANUAL

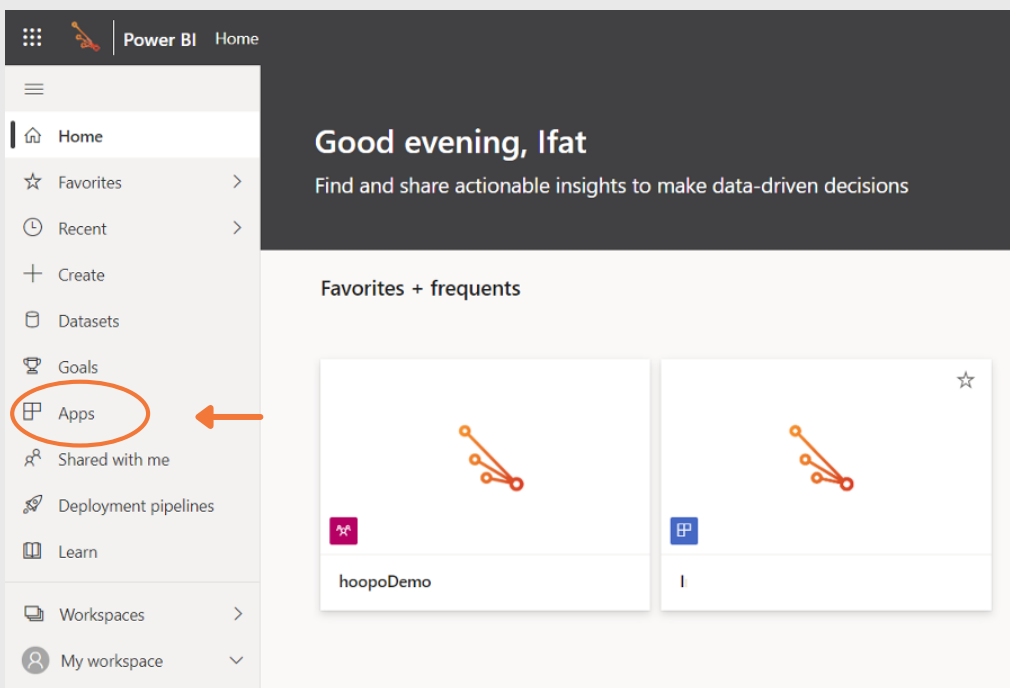
FIGURE 11: MICROSOFT POWER BI LOGIN PAGE



9.5. Insert the username and password you've received from the hoopo team.

9.6. Click on 'APPS' in the left menu, and then click on the dashboard that appears with your company's logo.

FIGURE 12: MICROSOFT POWER BI HOME PAGE



Note: we recommend you download the mobile Power BI app from the relevant store.

To login use the username and password you've received from the hoopo team.



HOOPOSENSE

INSTALLATION MANUAL

10.

ASSOCIATION TOOL

The association tool enables you to set the name and type of your asset, so they will appear on the hoopoDashboard instead of the hoopoSense tracker's serial number.

FIGURE 14: HOOPDASHBOARD - ASSET NAME AND TYPE

Current Status

Assets in sight: 8 / 69 Assets In Transit | Active Alerts: 56 | Data Update: 10/20/2021 8:16:58 AM GMT -6

Alert Status	Asset	Asset Type	Location	Accuracy	Navigate	Event Start	Dwell Time	Last Report
●	Dumpster 18	Dumpster	16294 E Geddes Pl, Aurora, CO	Medium	🔗	10/20/2021 7:47:00 AM	25 Minutes	10/20/2021 7:59:00 AM
●	Dumpster 98	Dumpster	In Transit	N/A	🔗	10/20/2021 7:43:00 AM	30 Minutes	10/20/2021 7:49:00 AM
●	BCCD0649	Standard	Ames 4829, Denver	High	🔗	10/20/2021 6:55:00 AM	1 Hour 18 Minutes	10/20/2021 7:06:00 AM
●	Dumpster 95	Dumpster	6723 E Rustic Dr, Parker, CO	Medium	🔗	10/20/2021 6:44:00 AM	1 Hour 28 Minutes	10/20/2021 6:56:00 AM
●	Truck 414	Truck	In Transit	N/A	🔗	10/20/2021 6:00:00 AM	2 Hours 13 Minutes	10/20/2021 6:05:00 AM
●	Truck 421	Truck	9301 S Parker Rd, Parker, CO	Medium	🔗	10/20/2021 5:54:00 AM	2 Hours 17 Minutes	10/20/2021 6:06:00 AM
●	Dumpster	Dumpster	7370 Popov	High	🔗	10/19/2021	17 Hours	10/19/2021

Asset Type: ● Dumpster ● Standard ● Truck

Map showing asset locations in the Denver area.

10.1. Enter the association tool via mobile or desktop by clicking this link :

app.hoopo.tech

HOOPOSENSE

INSTALLATION MANUAL



Asset Association Tool

Username

Enter your username

Password

Password

FIGURE 15: ASSOCIATION TOOL - LOGIN PAGE



Asset Association Tool

Hoopo Device ID

Enter device ID

BCCD0123

Asset Name

Enter asset name

Dolly1

Asset Type

Choose an asset type

Dolly

FIGURE 16: ASSOCIATION TOOL - INSERT DETAILS

- 10.2. Log in with the username and password you've received from the hoopo team.
- 10.3. Find the hoopoSense tracker by typing its serial number in the 'DeviceID' tab
- 10.4. Type the 'Asset Name' on which this tracker is installed
- 10.5. Choose the 'Asset Type' of this asset, if relevant.
- 10.6. Click submit.
- 10.7. If the details were updated successfully, you'll see a success message.
 - Note: if you don't see the success message, verify the details and your internet connection, and try again.
- 10.8. View the changes in the hoopDashbaord
 - Note: it may take a few minutes, you can refresh the page by clicking the refresh button.



HOPOSENSE

INSTALLATION MANUAL

11.

RADIO COMPLIANCE STATEMENT

Contains FCC ID: XMR202010BG95M3

This device complies with FCC Rules Part 15 and with Industry Canada license-exempt RSS standard(s). Operation is subject to two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or that may cause undesired operation.

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.
- Changes or modifications to this equipment not expressly approved by the party responsible for compliance (hoopo Systems Ltd.) could void the user's authority to operate the equipment.

WARNING! To comply with FCC RF exposure compliance requirements, the device should be located at a distance of at least 20 cm from all persons during normal operation. The antennas used for this product must not be co-located or operated in conjunction with any other antenna or transmitter.

Frequency bands: CAT M1-

B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85

CAT NB2- B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85

GSM/EDGE- 850/900/1800/1900

Power: 2 Watt

