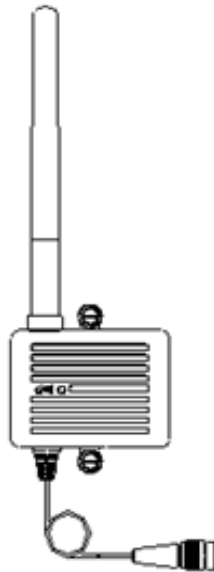


**mBFT17(V)-WCDMA,**

**3G wireless modem**

# **Operator Manual**



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**Hyundai J·Comm**



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## 1. Descriptions of mBFT17(V)-WCDMA

mBFT17(V)-WCDMA modems can be used to connect to the mobile network. 3G Data communication is possible using this modem. The following is a description of the appearance of the WCDMA modem.

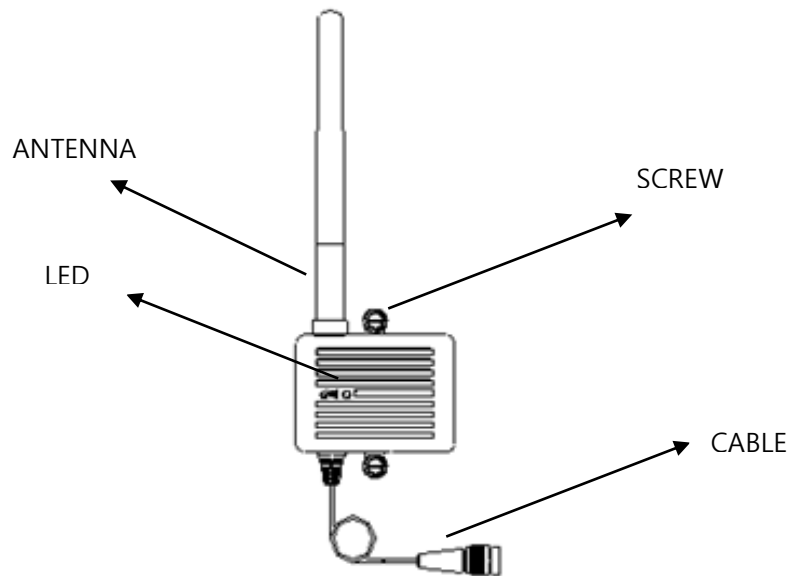


Figure 1-1 WCDMA modem appearance

### 1.1 Antenna

A dipole antenna which is mounted in the equipment for communication.

### 1.2 LED

The LED shows information on the network service availability and call mode status.

The Status indicated in the following table is modem status.

| LED STATUS                          | DEVICE STATUS                            |
|-------------------------------------|--|
| PERMANENTLY OFF                     | DEVICE OFF                               |
| FAST BLINKING(PERIOD 1S , TON 0.5S) | NET SEARCH / NOT REGISTERD / TURNING OFF |
| SLOW BLINKING(PERIOD 3S , TON 0.3S) | REGISTERED FULL SERVICE                  |

### 1.3 Screw

Modems can be operated by screws to the rear of terminals.

### 1.4 Cable

Mount the modem at the back of the terminal and connect the cable to it for use.

## 2. Descriptions of WCDMA modem assembly

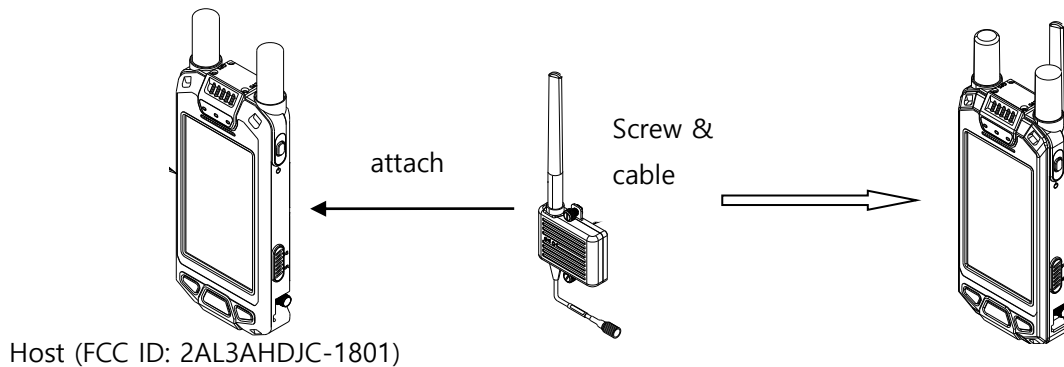


Figure 2-1 WCDMA modem assembly

## 3. Specifications

| CATEGORY       | STANDARD   | Remarks          |
|----------------|--|------------------|
| POWER SUPPLY   | 3.5 ~ 4.2 V  |                  |
| CURRENT        | < 1.0 A  |                  |
| FREQUENCY      | 824~849 MHz<br>1710~1755 MHz<br>1850~1910 MHz                              | WCDMA BAND 2/4/5 |
| DUPLEXING      | FDD  |                  |
| DATA RATE      | 7.2 Mbps   | Download         |
| USIM CARD      | Micro USIM   |                  |
| SENSITIVITY    | WCDMA BAND 2 : -110dBm<br>WCDMA BAND 4 : -111dBm<br>WCDMA BAND 5 : -111dBm |                  |
| ANTENNA        | MULTI BAND ANTENNA   | DIPOLE           |
| ANTENNA PORT   | SMA Connector , female   |                  |
| PORT IMPEDANCE | 50 ohm   |                  |
| DIMENSION      | 59.5(W)X445(H)X185(D) mm   | Cable included   |
| WEIGHT         | Below 130g   |                  |

## 4. Certification

### FCC Part 15 Statement

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 can cause undesired operation.

### FCC Interference 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. 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 radio or television receiving antenna.
- Increase the separation between the computer equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the radio or television receiver is connected.
- Consult the dealer or an experienced radio television technician for help.

### FCC RF Exposure Warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

### SAR Information

mBFT17(V)-WCDMA modem is a radio transmitter and receiver. It is designed and manufactured

not to exceed the limits for exposure to radio frequency (RF) recommended by FCC. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure guidelines for mobile devices employ a unit of measurement known as the Specific Absorption Rate or SAR.

The SAR limit is 4.0 watts/kilogram (W/kg) averaged over 10g of tissue. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands.

Use of device accessories and enhancements may result in different SAR values. SAR values may vary depending on national reporting and testing requirements and the network band.



## 5. Use conditions

This is mainly a handheld device. Only the voice function in satellite mode works on the body using body-worn accessory (Mini-bag).

And 3G wireless mode does not support voice function, only supports character transmission function and goes into standby mode if not operated for 10 seconds.

In this case, 3G wireless mode does not work under the condition of body-worn accessory.