

## 2 LD Module of BU-500

LD Module FCC ID: AMUBUM

**RF Transceiver:** Atmel AT86RF233

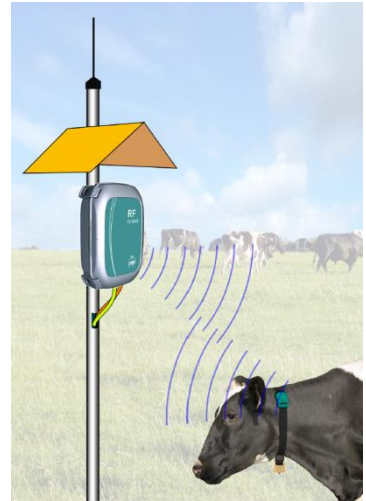
**RF Frequency:** 2.405-2.48GHz

**Modulation type:** QPSK

**RF Channels:** 5Mhz separation, 16 ch

**Baud Rate:** 250K Bit/Sec (Not configurable)

**RF Module output power:** 0dBm maximum



Operating voltage:- from limited 5VDC supply from BU500/E main board.

The unit design as specific design for BU500/E.

Two Modules assembled on BU500 Antenna and by flat cable to BU500 main board

BU-500/E (Base Unit) is a unit used to collect messages from tags and send them to central management system.

The unit replies to each tag upon receiving a message. They unit is also used to set various tag parameters.

### 2.1 BU-500 Units contains Internal Antenna

**Internal Antenna type:** Two polarizations, internal diversity patch directional Vertical and Horizontal

**Antenna gain:** 10dBi Maximum gain.

**Average RF data:** 3 messages/hour, 3mSec/message, ~30bytes/message per tag.

## 2.2 LD Module Options

Option 1 (not in use): Direct assembly on BU-500 board with connection to antenna by coax cable.

Option 2: Direct assembly on the antenna with connection to BU-500 board by flat cable

