

**· YGYbgY'9 Uf'H5 ; 'GdYWjZWHjcbgž: 7 7 '8 .5 AI H\$( '·**

**% ; YbYfU'XYgW]dhjcb'**

eSence Ear TAG is a unit mounted on animal ear, used for the following:

1. Identification of animal using 2.4GHz transceiver and/or NFC reader unit.
2. Measure various animal parameters, processes and transmit them via 2.4 GHz to the base unit (BU500/E).

The tag transmits a 4ms message every few minutes.

Outdoor installation, sealed unit, powered from internal 3.6V battery.



**&· &'( ; \ N'HfUbgW]j Yf'DUfUa YhYfg'**

**RF Transceiver:** Atmel AT86RF233

**RF Frequency:** 2.405-2.48GHz

**Modulation type:** QPSK

**RF Channels:** 5MHz separation 16ch

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

**Output power:** 3.5dBm max

**Antenna type:** PCB Omni-directional

**Antenna gain:** Average 0dBi (Max gain: 1.5dBi)

**Average RF data:** 3 messages/hour, 1mSec/message, ~30bytes/message.

**' · B: 7 'DUfUa YhYfg'**

Utilizing **DUgg]j Y** internal NFC High Frequency inlay (IC and Antenna) complying with the following standards

- ISO/IEC 15693-2, -3
- ISO/IEC 18000-3 Compliant
- 13.56-MHz Operating Frequency