

Operation description

- 1 Maximum code number: 232
- 2 Operating mode: read,write
- 3 Modulation: GFSK
- 4 Frequency band: 2.45GHz
- 5 Transmitting power: $\leq 1\text{mw}$
- 6 Operating voltage: 1.8V~3.6V DC
- 7 Operating current(max): $\leq 30\text{mA}$
- 8 Operating current(average): $\leq 30\text{mA}$
- 9 Battery type: CR2032
- 10 Battery life: 1.5 years
- 11 Readable range: 100m
- 12 Dimension: 60mm x24mm x 5mm
- 13 Maximum duty time: 700ms

TWR300-TR142 active RFID card transmit its ID and other stored information to base station via the 2.45GHz ISM band channel and the base station will save and record these data.

When objects with TWR300-TR142 active RFID cards enter into the range covered by a base station, the base station reads the ID and other information, such as battery capacity etc. of RFID cards and send them to the host machine along with the timestamps. The host can match the received information to default information and make a decision to react on certain events based on, for example, objects' movement and location. These information are written into database to be used by other consumers or for future reference. The system can be used for security applications to monitor people or objects remotely in real-time.