

Brief Operational Description of the Q-Track QT™-500 Tag

The QT™-500 tracking system provides real-time tracking of objects with an accuracy generally better than 3 feet. The system uses an analog wireless link to determine the location of multiple QT™-500 tags. The tags transmit on a channel in the AM broadcast band (510 to 1710 kHz) under FCC Part 15 rules. The transmit channels are carefully chosen to avoid harmful interference with licensed emitters (AM broadcast signals would interfere with QT™-500 tracking and are thus avoided). The transmit frequency is installed at the factory using automatic test equipment (cannot be changed by the user). The QT™-500 tag is microprocessor controlled and powered by four AA batteries. The antennas are self-contained within the plastic enclosure. The tags can be remotely controlled, and can pass bi-directional data, via an internal IEEE 802.15.4 module.

