

## Technical Description

The PLUS P350 is an active RFID system based on wideband technology. It's primary use is for the location and identification of people or objects which are equipped with a small RF tag.

The P350 system is comprised of the following components:

**Badge Tag** (FCC ID: NUF-PLUS-0908): The Badge Tag is a small personnel carried transmit-only device which emits data packets at a constant (pre-programmed) rate to allow for locating individuals in one or two dimensions. The data packets include a tag identification code, status information, and time of arrival measurement waveforms. The Badge Tag is powered by a 3 volt lithium ion battery.

**Tag** (FCC ID: NUF-P350-1006): The tag is a small, transmit-only device which emits data packets at a constant (pre-programmed) rate. The data packets include a tag identification code, status information, and time of arrival measurement waveforms. The Tag is powered by a 3 volt lithium ion battery.

**Cal Tag** (FCC ID: NUF-P350-0508): The Cal Tag is a small, transmit-only device which emits data packets in the same way as the tag. However the Cal Tag only transmits during the system calibration. The Cal Tag is powered by a reader thru a RJ-11 connector and a 24" cable.

**Reader:** The reader is a receiver which is permanently mounted in the area of coverage. The reader reads and decodes the data packet from the tag, and also ascertains the time of arrival of the packet at the receiver.

**Synchronization Distribution Panel:** The synchronization distribution panel (SDP) distributes a timing signal to multiple receivers in order that the times of arrival measured by each have a common time base. The SDP additionally powers the receivers over Ethernet cable, and passes the decoded data and measured times of arrival to other Ethernet devices.