

## **OPERATIONAL DESCRIPTION**

Ubisensor30v1

FCC ID SEASENSOR30

The Ubisensor30v1 is a basestation used by the Ubisense Location System, which supports the real-time location of objects. It detects ultra-wideband (UWB) pulses emitted by wireless tags (Ubitags), allowing the 3D position of the tag to be found. The use of UWB technology enables greater positioning accuracy than other wireless technologies, because it is much less susceptible to multipath interference effects. Applications of the system include healthcare, workplace productivity, security, retail management and manufacturing.

The Ubisensor30v1 is a composite device consisting of a conventional FM radio transceiver operating in the range 2400-2483.5MHz (FCC ID SEASENSOR30, which is subject to certification, the application for which is supported by this document), and an associated Class B digital device (which will be subject to Verification Authorisation under section 15.101b of CFR47). The conventional FM intentional radiator section of the device utilises two antennas for the purposes of antenna diversity. Both antennas are permanently attached and are integral to the device.