COMBINED SOLUTIONS FOR INDUSTRY

NOTE ON MBAN BAND DISABLING

Wireless modules of inertial sensor WISE01 and USB gateway station GTWY01 are provided by dedicated radio chips (MKW41Z512 and MKW24D512, respectively).

All the radio communication features are controlled by means of a dedicated firmware, specifically developed by NCS Lab for implementing the radio communication protocol between inertial sensor WISE01 and USB gateway station GTWY01 based on IEEE 802.15.4 standard and between inertial sensor WISE01 and a generic BLE device based on Bluetooth Low Energy standard.

In any case, the band selection is defined and limited by the dedicated firmware and is restricted to ISM band and in particular to the following specific bands:

- BLE 4.2: 2402-2480 MHz
- IEEE Std. 802.15.4: 2405-2480 MHz

MBAN band, even if supported by the radio chips, is disabled at firmware level and cannot be activated by the device users, neither within the intended use using the software provided together with the devices, nor using out-of-spec third parties software.