

# Nexxt Solutions

## Hopping Declaration

**Model no.:** AIWPTFI4U1

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- A. There are 32 sets of hopping sequence on "sensor side". Every set contain two sub set: 20 non-overlap hopping channels and 20 non-used channels (total used 31 channels form 2408~2468Mhz). The sequence on both sets are full random.
- B. After wake up, the "sensor side" choices one set and the start position by random (Fig1).
- C. The "sensor side" calculates the channel quality by ACK information and "Access request" fail (if channel fail add 20 and if packet lost add "lost packets"/32).
- D. If one channel is too bad (fail count > 5), places it onto the non-used channel set and gets one good channel form non-used channel set (Fig 2).
- E. If one channel has good quality, reset the fail count to 0.



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