

P5 Device Family R/F Channel Dwell Time

Overview

All Packet Power P5-family devices (P5T3, P5T1, P5J6 etc.) use identical hardare and software R/F communication systems. The system uses a pseudo-random frequency hopping scheme, with packets transmission times of 7ms (in 2.4GHz band) or 10ms (in 860/920MHz bands).

Minimum time between any two transmissions (always on different channels) is: $2^9 * 22.5ms = 11.52s$,

Maximum time between between such transmissions is:

2¹² * 22.5ms = 92.16s.

Minimum time between consecutive transmissions on the same channel (out of 64) is: $64 * 2^9 * 22.5 ms = 737s$.