TEST 1

Sleep mode = p2; Sync word = 0xc3b5; Link mask = 0000bdbbb9b7b5b300000000; random = 1;

Packet size =128 bits

Total max Packet rate ≈ 5400/s

Total max data rate ≈ 128 \* 5400 = 691.2 kbps

PER = 1 in 5 @ 15 cm

BER = 1 in 580 @ 15 cm

97% error free packets @ 15 cm

Link margin = 15 dB @ 15 cm

PER = 1 in 2 @ 2ft

BER = 1 in 235 @ 2ft

91% error free packets @ 2ft

Link margin = 14 dB @ 2ft

Packet size = 256 bits

Total max Packet rate ≈ 5200/s

Total max data rate ≈ 256 \* 5200 = 1.3312 Mbps

PER = 1 in 4 @ 15 cm

BER = 1 in 290 @ 15 cm

94% error free packets @ 15 cm

Link margin = 14 dB @ 15 cm

PER = 1 in 2 @ 2ft

BER = 1 in 129 @ 2ft

79% error free packets @ 2ft

Link margin = 12 dB @ 2ft

Packet size = 512 bits

Total max Packet rate ≈ 5200/s

Total max data rate ≈ 512 \* 5200 = 2.6624 Mbps

PER = 1 in 3 @ 15 cm

BER = 1 in 124 @ 15 cm

85% error free packets @ 15 cm

Link margin = 13 dB @ 15 cm

PER = 1 in 1 @ 2ft

BER = 1 in 61 @ 2ft

67% error free packets @ 2ft

Link margin = 13 dB @ 2ft

Packet size = 1024 bits

Total max Packet rate ≈ 4000/s

Total max data rate ≈ 1024 \* 4000 = 4.096000 Mbps

PER = 1 in 2 @ 15 cm

BER = 1 in 46 @ 15 cm

61 % error free packets @ 15 cm

Link margin = 12 dB @ 15 cm

PER = 1 in 1 @ 2ft

BER = 1 in 29 @ 2ft

41% error free packets @ 2ft

Link margin = 12 dB @ 2ft

Sync word: cab5

Packet size = 240 bits

Total max Packet rate ≈ 3200/s

Total max data rate ≈ 240 \* 2200 = 1.09 Mbps

PER = 1 in 28817 @ 15 cm

BER = 1 in 229 @ 15 cm

95 % error free packets @ 15 cm

Link margin = 1 dB @ 15 cm

PER = 1 in 4500 @ 2ft

BER = 1 in 50 @ 2ft

85% error free packets @ 2ft

Link margin = 2 dB @ 2ft

Sync word: c3b5

PER = 1 in 4 @ 15 cm over 5mins

Sync word: cab5

PER = 1 in 20000 @ 15 cm over 5mins

Disconnects after 15 mins

Sync word: c8b5

PER = 1 in 40000 @ 15 cm over 5mins

Stable?

REG\_RSSI 0x22

REG\_MAXNOILVL 0x28

Noise level lower

2017/07/26

Packet size = 240 bits

Packet rate = 2000

Sync word = c3b5

Preamble length = 7 bytes

PER = 1 in 16 @ 3ft

BER = 1 in 26 @ 3ft

72% error free packets @ 3ft

Packet size = 240 bits

Packet rate = 2000

Sync word = c3b5

Preamble length = 15 bytes

PER = 1 in 24 @ 3ft

BER = 1 in 36 @ 3ft

79% error free packets @ 3ft

Packet size = 240 bits

Packet rate = 2000

Sync word = c3b5

Preamble length = 31 bytes

PER = 1 in 26 @ 3ft

BER = 1 in 43 @ 3ft

82% error free packets @ 3ft

Packet size = 240 bits

Packet rate = 2000

Sync word = c3b5

Preamble length = 63 bytes

PER = 1 in 27 @ 3ft

BER = 1 in 33 @ 3ft

78% error free packets @ 3ft

Packet size = 240 bits

Packet rate = 2000

Sync word = c8b5

Preamble length = 7 bytes

PER = 1 in 40 @ 3ft

BER = 1 in 26 @ 3ft

72% error free packets @ 3ft

Packet size = 240 bits

Packet rate = 2000

Sync word = c8b5

Preamble length = 15 bytes

PER = 1 in 1259 @ 3ft

BER = 1 in 42 @ 3ft

80% error free packets @ 3ft

Packet size = 240 bits

Packet rate = 2000

Sync word = c8b5

Preamble length = 31 bytes

PER = 1 in 843 @ 3ft

BER = 1 in 42 @ 3ft

80% error free packets @ 3ft

Packet size = 240 bits

Packet rate = 2000

Sync word = c8b5

Preamble length = 63 bytes

PER = 1 in 1902 @ 3ft

BER = 1 in 40 @ 3ft

80% error free packets @ 3ft