

Suggested settings for WMBUS T mode

- Measurements were done on 6 CC1125 EMs @ 40MHz
- The sensitivity measurements are done with a 3 byte package. 20% PER equals 1% BER.
- The PER vs level measurements are done with a 30byte package, 50 packages are sent pr level.
- Operating conditions are 2.0V -3.6V, 3.0V typical, -40° - 85°, 25° typical.

Settings

SYNC3	AA
SYNC2	AA
SYNC1	A4
SYNC0	3D
SYNC_CFG1	9
SYNC_CFG0	B
DEVIATION_M	47
MODCFG_DEV_E	6
DCFILT_CFG	C
PREAMBLE_CFG1	18
PREAMBLE_CFG0	17
FREQ_IF_CFG	0
IQIC	0
CHAN_BW	1
MDMCFG1	C6
MDMCFG0	5
DRATE2	A4
DRATE1	7A
DRATE0	E1
AGC_REF	40
AGC_CS_THR	FD
AGC_GAIN_ADJUST	0
AGC_CFG3	3
AGC_CFG2	20
AGC_CFG1	A9
AGC_CFG0	C0
PA_CFG2	7F
PA_CFG1	56
PA_CFG0	78
IF_MIX_CFG	0
FREQOFF_CFG	20
TOC_CFG	CB
SOFT_TX_DATA_CFG	0

Results

Sensitivity:

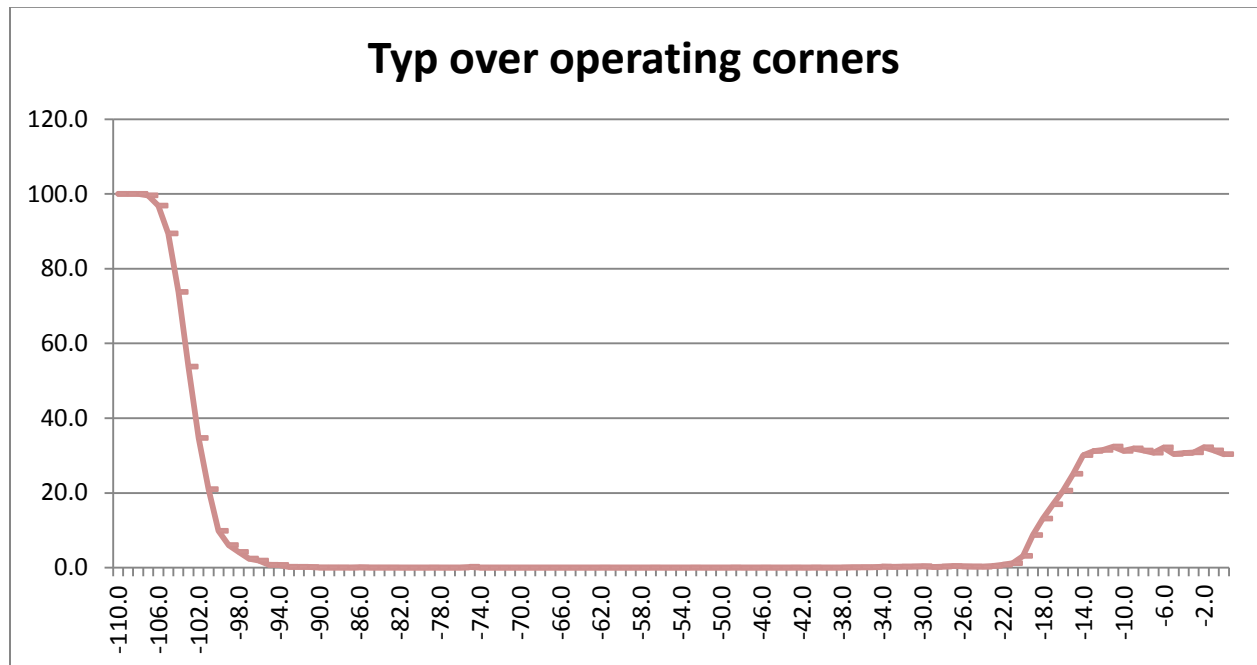
Typical over operating corners:

-103.2 @ 88kbps (-12% datarate tolerance)

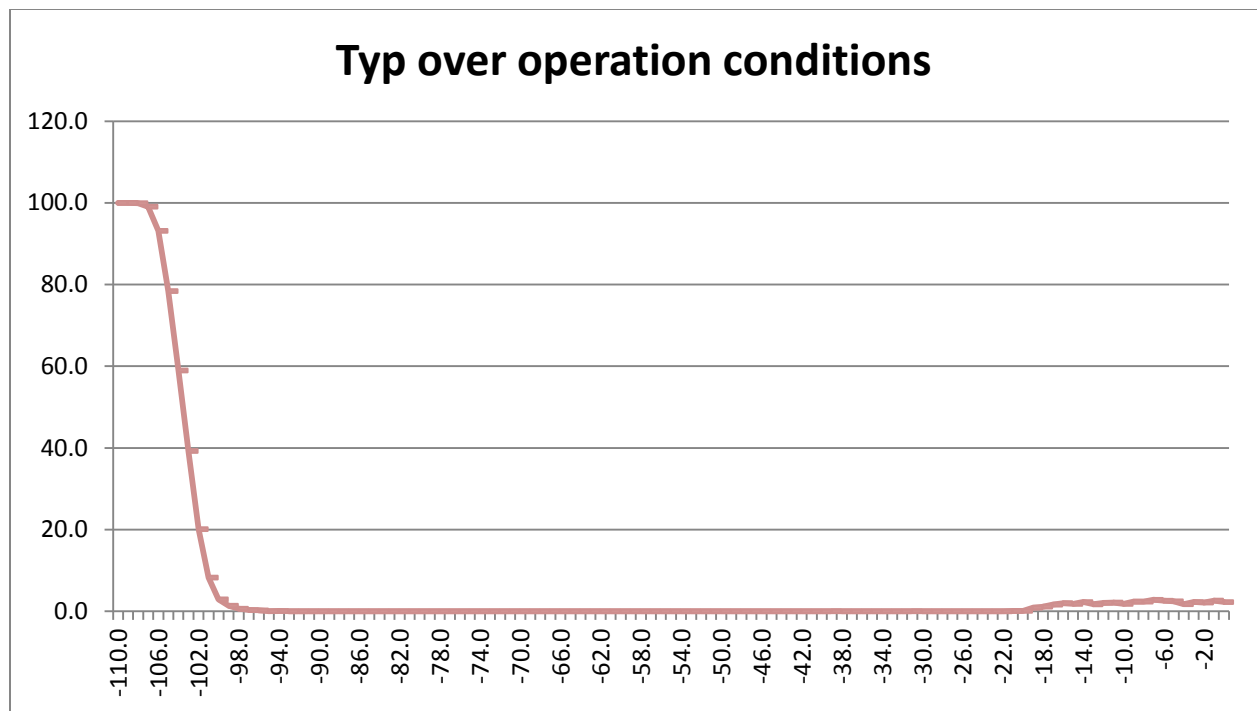
-103.2 @ 100kbps (nominal datarate)

-102.3 @ 112kbps (12% datarate tolerance)

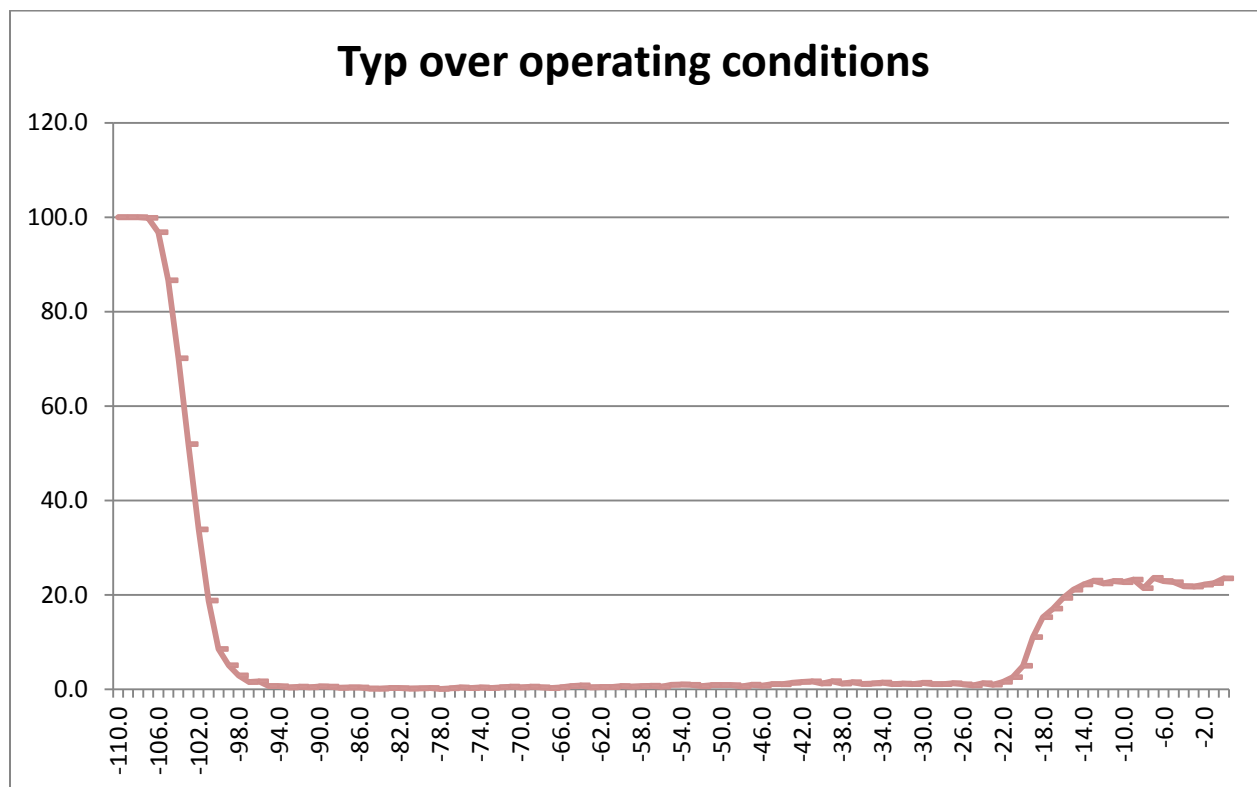
PER vs level:



PER vs level for 88kbps



PER vs level for 100kbps



PER vs level for 112kbps