

Necessary Bandwidth Calculation:

The necessary bandwidth is calculated based on “Gaussian Minimum Shift Keying (GMSK)” example from TRC-43 section 9 part V.

$$B_n = \frac{R}{\log_2 S} - 0.5RK$$

Where the following parameters are assigned:

R = 12 kbps

S = 2

K = 0.28

The calculated necessary bandwidth of the module is 10.32 kHz.