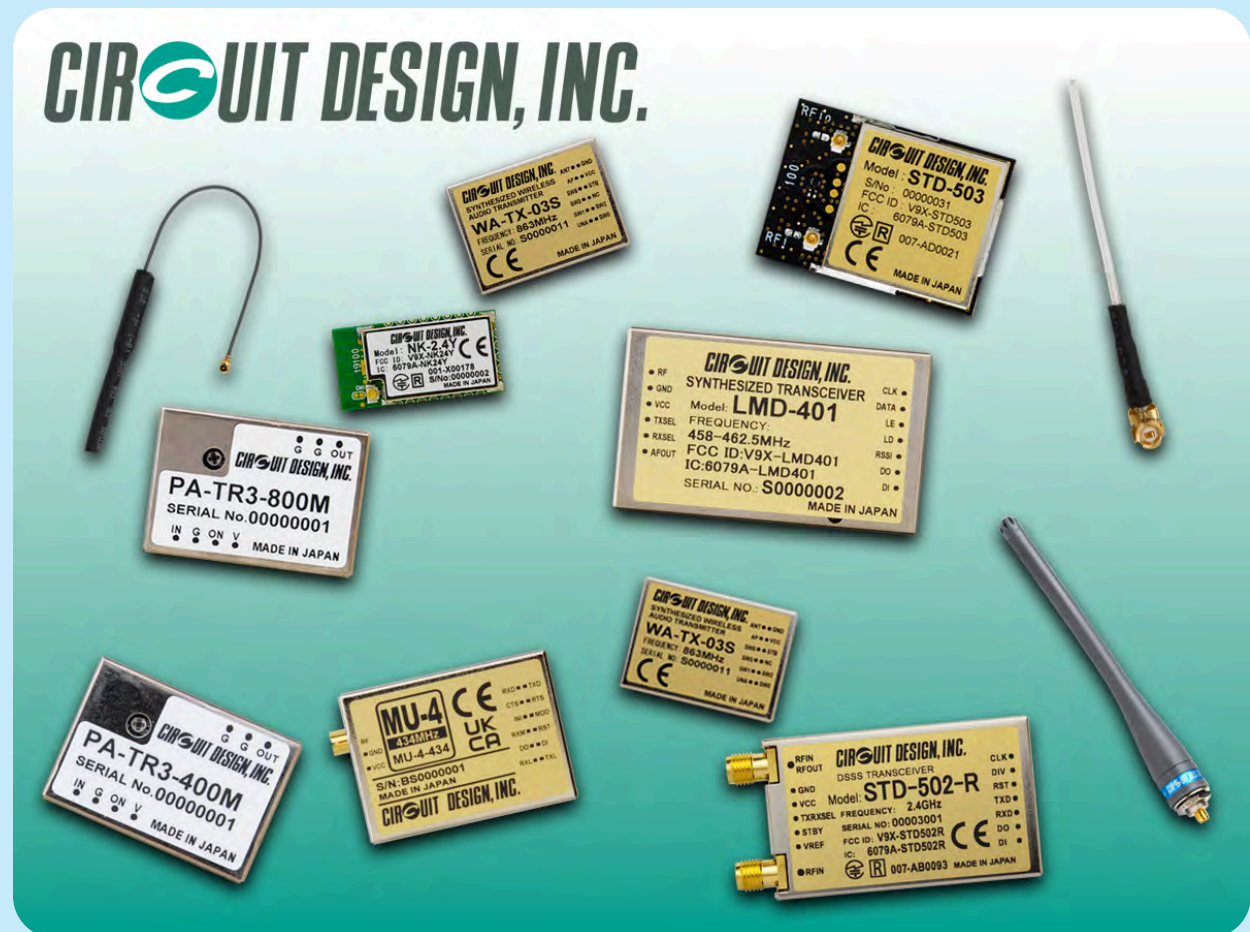




## news & updates January 2026 | Issue 1

### In this issue:

A leading Japanese design and manufacturing company of low power radio products.



### CEO's Corner

Circuit Design, Inc. is a technology-driven manufacturer specializing in high-performance wireless communication solutions. With decades of experience in RF engineering, the company designs and produces compact, reliable modules that enable secure data transmission across industrial, commercial, and embedded applications. Known for precision design and rigorous quality standards, Circuit Design products are trusted in environments where stability, long range, and low power consumption are essential.



# Articles and Videos in 2025

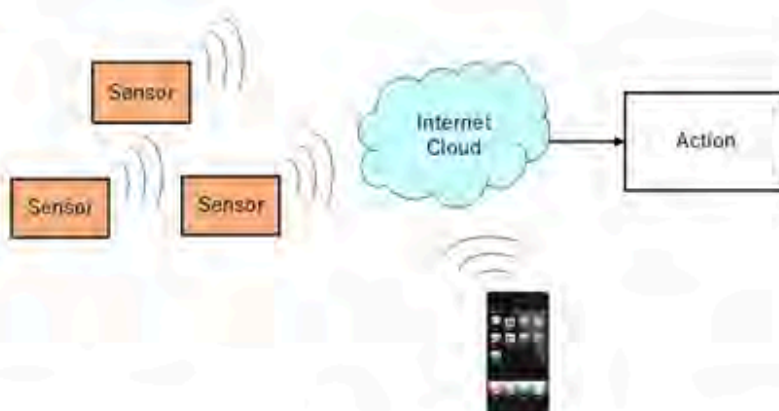
RF Design guides - click image to access full article!

Can receiver performance predict communication range?



The transmitter's role is to create and emit the wave from the input signal. This is usually a straight forward process operating within parameters e.g. output power. However for communication to be successful, we still have to be able to receive the signal. For this reason, more design goes into the receiver.

How radios can create IoT networks?



With radios becoming smaller and with the added benefit of the internet/smart devices, pretty much anything with a radio can send information through the internet (the "I" in IoT) and received anywhere. While this opens up a whole new world of convenience, security can be an issue.

## What are decibels or dB?



Perceived changes in radio levels only make sense if they're treated relatively. For example, is our new value 10 times stronger than before. Or 10 times weaker?

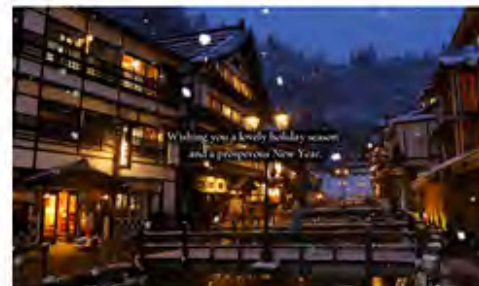
With decibel values, we can write proportionality on a linear scale.

### Other items

Mutual conversion of decibel value and true value

Welcome to the calculation tool for dB voltage and power

Mutual conversion of decibel value and true value



### Mutual conversion of decibel value and true value

Our calculation tool allows you to convert between decibel and normal values for both voltage and power.

**Circuit Design wishes you a prosperous new year for 2026!**

**CIRCUIT DESIGN, INC.**

Visit our stand (Booth Number 3-612) at the upcoming Embedded World exhibition in March 2026!



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