

Antenna Gain Conversion Table

IF YOU ARE...	AND YOU...	STEP 1	STEP 2
Calculating ERP	Start with dBi	$\text{dBi} - 2.15 \text{ dB} = Y$	N/A
	Start with dBiC	$\text{dBiC} - 3 \text{ dB} = X$	$X - 2.15 \text{ dB} = Y$
	Start with dBd	Keep as is	N/A
	Start with dBiL	$\text{dBiL} - 2.15 = Y$	N/A
Calculating EIRP	Start with dBi	Keep as is	N/A
	Start with dBic	$\text{dBic} - 3 \text{ dB} = Y$	N/A
	Start with dBd	$\text{dBd} + 2.15 \text{ dB} = Y$	N/A
	Start with dBiL	Keep as is	N/A

Unlike RFID Readers that have a standardized measure of Transmit Power (dBm) an RFID Antenna's Gain is typically reported in dB, dBi, dBiC, dBd, or dBiL depending on the type of antenna, polarization, and manufacturer. Because of the different gain measurements, it is often very hard to compare RFID Antennas when choosing one for your application.

This Antenna Gain Conversion Table enables quick conversions of the most popular gain measurements in an easy-to-use step-by-step process. This Conversion Table is most often used for:

- Comparing RFID Antennas
- Calculating System Output power in terms of EIRP and ERP

For more information about RFID Antenna Gain and how it affects a system, checkout our guide:

[> 9 Tactics For Choosing An RFID Antenna](#)