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- RF is used in numerous medical applications viz. RF ablation, Skin tightening, spectroscopy, telemetry, Wireless Body Area Network etc.
- RF is used for home automation, automatic car parking, meter reading etc.
- Radio frequencies are used for over the air transmission as it withstand against channel which is not possible with baseband signals.

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RF vs Baseband | difference between RF and Baseband

baseband signal 101101001 Radio Transmitter synchronization
decision digital analog data demodulation radio carrier analog
baseband signal ... RF_N CC2420 BALUN TX/RX Switch ANT PA LP
filter TX path RX path Control logic and bias network RX current
19.7 mA 19.7 mA Line of 230 meter 580 meter Sight Range

RF Basics, RF for Non-RF Engineers - TI.com

In the context of RF, the existing signal is called the carrier, and the information is contained in the baseband signal. There are many different modulation schemes, meaning that there are different ways of incorporating baseband information into a sinusoidal carrier wave.

The Many Types of Radio Frequency Modulation | Radio ...

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The analog interface between the mixed signal and RF devices evolved into a de facto standard of differential transmit and receive in baseband IQ format (sometimes multiplexed to save pins), together with analog AFC and PA power control.

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DigRF BASEBAND / RF DIGITAL INTERFACE SPECIFICATION

circuit techniques has been proposed for the following base-band and RF blocks. 1) High linearity base-band filter using attenuation-predistortion linearization. technique for the use in wide-band receivers. 2) High efficiency class D power amplifier for low output power applications.

Linearization and Efficiency Enhancement Techniques for RF ...

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