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### What is Sub 1GHz RF? Why is it so important for wireless IOT?

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The SimpleLink Sub-1 GHz stack solution is built on TI's SimpleLink MCU platform, and offers a complete solution for connecting long-range, low power sensors in the home, building, and city. The SimpleLink Sub-1 GHz stack offers a standards-based, star-network that makes Sub-1 GHz connectivity easy by providing all of the necessary components for a robust system.

#### Why Sub-1 GHz - Texas Instruments

SimpleLink™ Sub-1 GHz wireless microcontroller (MCU) LaunchPad™ development kit; CC1310EMK SimpleLink™ Sub-1 GHz CC1310 Evaluation Module Kit; Blog: Why use Sub-1 GHz in your IoT application? Infographic: Why Sub-1 GHz? TI Designs. Sub-1 GHz CC1120-CC1190 BoosterPack™ Reference Design for the SIG-FOX Network

The video describes the SimpleLink™ Sub-1 GHz sensor to Cloud solution. It shows unboxing of the kit and demonstrates the 4 different gateway options that are supported right out of the box.

#### Connect: Why Sub-1 GHz? | TI.com Video

A senior design team from Texas A&M was tasked with building a wireless solution for sensors in space, and they used the CC1120 wireless MCU and CC1190 range extender to achieve their needs.

#### Sub-1 GHz in Space

#### TI unveils first ultra-low power dual-band wireless MCU in ...

#### Wireless Motion Detector With Sub-1 GHz SimpleLink ...

Our Sub-1 GHz narrowband products provide the distance and robustness to meet any developer's needs for networks with the lowest power. This means the devices have the ability to transmit at a longer range, at the lowest power consumption, through concrete and cities without interruption from other sources.

SimpleLink Sub-1 GHz network solution: TI 15.4 Stack. The SimpleLink Sub-1 GHz stack solution is built on TI's SimpleLink MCU platform, offering a single development environment with code portability to multiple connectivity protocols. It is a complete solution for connecting long-range, low power sensors in the home, building, and city.

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DALLAS, Sept. 14, 2016 /PRNewswire/ -- Expanding the functionality of Internet of Things (IoT) networks, Texas Instruments (TI) (NASDAQ: TXN) today announced availability for mass production of the industry's lowest-power dual-band wireless microcontroller (MCU) supporting Sub-1 GHz and Bluetooth® low energy connectivity on a single chip.

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RF signals in Sub-1 GHz frequency bands propagate well in the air, through walls, and around corners. Therefore, it is easy to achieve robust wireless-signal coverage of an entire house, large

#### Texas Instruments Connect: Why Sub-1 GHz? - SemiMedia Why Sub 1 GHz? - Avnet Video Gallery

In this video, we describe the advantages of using Sub-1GHz wireless communication, and why Sub-1GHz communication can increase range, reduce power consumption, and increase reliability. What is often missing is the seamless interaction from 2.4 GHz to Sub-1 GHz. For a lot of wireless products, range is much more important than being able to send high throughput data. Take smart metering, for example, or a sensor device in an alarm system, or a temperature sensor in a home automation system.

#### Sub-1 GHz long-range communication and smartphone ...

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Why is this strange? As long as you don't send anything on that frequency, -100dBm is totally valid. In the moment when you receive a packet, you can observe a RSSI of -14dBm when transceiver and receiver are close together. If you are interested only in the RSSI of the received packet, then there is a more reliable way:

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Sub-1 GHz in Space A senior design team from Texas A&M tasked with a project out of this world had to develop a wireless solution for small sensor systems in space. We looked at all our options, and to get the distance we needed, we ended up going with the Texas Instruments cc1120 and cc1190 long range solution.

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Get long-range data at your fingertips by utilizing Sub-1 GHz and Bluetooth low energy together with the SimpleLink CC1350 ultra-low power dual-band wireless MC

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### **Why Sub-1GHz?**

Lower Power Consumption: Wireless Sub 1 Ghz RF needs a lower power signal from the transceiver compared to the 2.4Ghz spectrum to get the same output power signal at the receiver. This makes the sub 1Ghz RF a great choice for battery operated IOT sensor devices.

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Monitor IoT networks from a handheld device with TI's single-chip Sub-1 GHz and Bluetooth® low energy solution available today. Long-range connectivity paired with ultra-low power consumption that offers a sleep current of 0.7 uA which allows for more than 10 years of battery life. Enhanced integration in a tiny wireless MCU...

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In today's connected world, there are a multitude of options to choose from when looking for wireless connectivity. Between Wi-Fi, Bluetooth, ZigBee, Sub-1GHz, NFC, and more, how do you determine which one is most suitable for an application?

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