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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 SIGFOX Network Why Sub-1GHz? | TI.com Video Texas Instruments Connect: Why Sub-1 GHz? SemiMedia Edit. 2018-09-27 336 0. Related posts: Texas Instruments CC2640R2F/CC2640R2F. Texas Instruments' Connect: Industrial Gateway to Cloud Demo. Texas Instruments | Connect: Wi-Fi security challenges. Texas Instruments | A manufacturing tour. This post is originally composed by SemiMedia. Any ... Texas Instruments Connect: Why Sub-1 GHz? - SemiMedia The SimpleLink Sub-1 GHz stack solution is built on TI's SimpleLink MCU platform [1], and offers a complete solution for connecting long-range, low power sensors in the home, building, and city. Connect: Why Sub-1 GHz? 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. Sub-1 GHz in Space | TI.com Video 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 MCU Why Sub-1 GHz + BLE? 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. 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. What is Sub 1Ghz RF? Why is it so important for wireless IOT? 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 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. TI unveils first ultra-low power dual-band wireless MCU in ... 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. SimpleLink™ Sub-1 GHz Sensor to Cloud Development Kit from Element14 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

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

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 + BLE?

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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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.

Why Sub-1GHz?

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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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.

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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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