

Long distance wireless communication without base station

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Title: Long distance wireless communication without base station

Generated on: 2026-04-13 11:14:45

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LoRaWAN is a low-power, low-cost wireless technology that can enable secure, highly reliable communications to smart buildings, smart cities, smart agriculture, and more.

Sigfox devices are very simple and low-cost, as they only need to transmit short messages to the nearest base station, which then forwards the data to the Sigfox cloud. Sigfox provides end-to ...

Meshtastic uses LoRa to transmit text messages over long distances, expanding communication without Wi-Fi or cellular networks. By turning radios into a meshnet, ...

At Ligowave, you can get one of the leading edge Long Range Wireless Outdoor bridges. Long distances from 70km up to 100+.

It is a wireless communication technology designed to enable low-power, long-range data transmission. LoRa is used primarily in IoT (Internet of Things) applications that require ...

LoRaWAN is a standard within LPWA (Low Power Wide Area) wireless communication that uses the unlicensed band (sub-GHz band) that does not require a radio ...

When venturing into remote areas, traditional communication methods often fail due to lack of cellular coverage. Meshtastic offers an innovative solution to this challenge by ...

Long-range Wi-Fi is used for low-cost, unregulated point-to-point computer network connections, as an alternative to other fixed wireless, cellular networks or satellite Internet access.

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CSMA/CA: impractical due to large RTT o --> low utilization/throughput Long-distance wireless communication: effective when broad-casting --> special applications --> e.g., TV, GPS, ...

LoRaWAN is a low-power, low-cost wireless technology that can enable secure, highly reliable communications to smart buildings, smart cities, ...

OverviewIntroductionApplicationsLarge-scale deploymentsIncreasing range in other waysObstacles to long-range Wi-FiNotable linksExternal linksLong-range Wi-Fi is used for low-cost, unregulated point-to-point computer network connections, as an alternative to other fixed wireless, cellular networks or satellite Internet access. Wi-Fi networks have a range that's limited by the frequency, transmission power, antenna type, the location they're used in, and the environment. A typical wireless router in an indoor point-to-multipoint arrangement using 802.11n and a stock antenna might have a range of 50 metres (160 ...

These systems provide a vital solution for enabling communication in remote or underserved areas without relying on existing network infrastructure. In this blog post, we explore how ...

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