

UWB Alliance to present at Wireless IOT Tomorrow23 in Wiesbaden

UWB is an optimal choice for IoT and the shared spectrum

Since 2019, Ultra Wideband (UWB) technology has been expanding into a mainstream consumer technology for smartphones, wearables, automotive and industry, forecasted to drive sales volumes in excess of one billion devices annually by 2025. Every smartphone manufactured in 2023 contains an integrated UWB chip. *None of these developments would have happened without the ceaseless research, development and lobbying work of the UWB Alliance.* At the [WIOT Tomorrow23](#) in Germany, which is the largest event dedicated to WIOT technologies, the UWB Alliance will emphasize three key points about UWB and its present and future significance.

#1: UWB is the optimal choice for IOT

UWB is a highly sustainable data transmission method because of its low power consumption. It is characterized by low transmission power combined with a wide frequency range and wide bandwidth. The transmission power is limited to 10 nanowatts and the pulses are sent every few nanoseconds, allowing UWB to achieve real-time accuracy.

#2: UWB is an excellent choice for the shared spectrum

UWB works invisibly with both incumbent technologies and with other unlicensed technologies. It transmits data using the method 'overlay': the pulses of the transmitted signal overlay the signals also present in the frequency band. Although UWB is active in the same frequency range as many other radio technologies (for example WLAN, Bluetooth, mobile communications), it does not generate any interference within the band due to the low transmission strength. The reverse is also true: UWB transmissions are not interfered with by other transmissions. This makes UWB a very reliable partner for IoT use cases at a large scale.

#3: UWB is working toward a new standard

The UWB Alliance seeks to increase the utility of UWB globally through the expansion and adoption of UWB Standards worldwide. So far there are strict limitations on outdoor use – these could be lifted in years to come. Other examples include providing better indoor range, simplifying the automotive rulesets, and working to find alternative solutions to the EC's proposal to mandate the measurement of transmit duty cycle over a one-hour period.

Find Out More in the RTLS & Automation Area at the Wireless IoT Tomorrow 23!

The UWB Alliance is a supporter of the Exclusive RTLS & Automation Exhibition Area. Demonstrators which showcase RTLS technology will be displayed and there will be a round-table session on October 18th.

About UWB Alliance

The Ultra Wide Band (UWB) Alliance is a global not-for-profit organization that works to collectively establish ultra-wideband (UWB) technology as an open-standards industry. A coalition made up of vendors that either design, manufacture, or sell products that use ultra-wideband technology, the UWB Alliance aims to promote and protect the current allocation of bandwidth as well as promote the continuing globalization of the technology. The UWB Alliance's goals include

promoting verticals showing the value of UWB for IoT and Industry 4.0 and building a global ecosystem across the complete UWB value chain.