

IEEE Wake-Up Radio

Prolong the battery life of Internet of Things devices with this low-power, high-performance solution.



The Problem:

Today, wireless networked devices have to enter a sleep state to prolong their battery life. The longer the device sleeps, the longer the battery lasts, but the lower the device performance. Low power consumption and high performance are conflicting goals.

The Solution:

IEEE Wake-Up Radio from IEEE 802.11ba standards task group lets devices achieve low power and high performance (low latency) AT THE SAME TIME!

How it Works

1



A low power radio receiver (Wake-Up Radio) is added to a device. **This is the only thing that stays "awake" all the time**, and it uses very little battery power.

2



The low power radio **"listens"** for a special signal that says that information is being sent to the device.

3

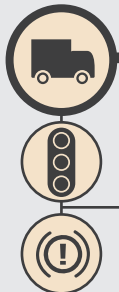


The radio **"wakes up"** the main Wi-Fi® radio so that data exchange can begin.

Wake-Up Radio Applications

Many Internet of Things devices that run over short-range wireless networks can benefit from IEEE Wake-Up Radio, including:

Transportation and Logistics



Smart Warehouses



Smart Homes



Agriculture



Health Monitoring Wearable Devices

