

# Amazon Sidewalk Wide Area Network



amazon sidewalk



Amazon Sidewalk is a  
shared network

**What is  
Amazon Sidewalk**



**How Amazon  
Sidewalk works**



**ST devices for  
Amazon Sidewalk**



# What is Amazon Sidewalk

## Seamless wide area network coverage for Sidewalk devices

Sidewalk extends IoT node access by using Amazon Gateways

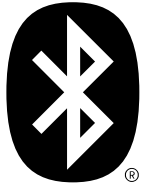
Standardizing on the Amazon sidewalk protocol unlocks Amazon Echo gateways in communication range of IoT devices

Asset tracking is achieved through multiple gateway access extending reach and increasing reliability

# How Amazon Sidewalk works

## Key aspects of Amazon Sidewalk solution

- Amazon Sidewalk utilizes both: Bluetooth LE and SubGHz RF technology
- Bluetooth LE is used to commission and setup gateway connections
- Amazon Gateways are Alexa enabled devices such as Amazon Echo
- IoT data can be transmitted through Bluetooth LE, LoRA or FSK
- Sidewalk data is routed to AWS servers through the Amazon Gateways
- The data is then accessed and visualized through AWS servers





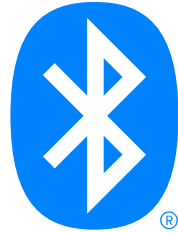
# Amazon Sidewalk – STM32WBA + STM32WL





# ST devices for Amazon Sidewalk

## STM32WBA



- Bluetooth® Low Energy 5.3
- Based on Arm® Cortex® M33 at 100MHz with TrustZone® technology
- Leveraging STM32U5 ultra-low-power platform
- Built using 40nm process technology

## STM32WL



- Dual Core, Arm® Cortex® M4 & Cortex® M0+ at 48MHz
- Leveraging STM32L4 ultra-low-power platform
- Worlds first and only LoRA capable SoC
- Fully compatible with Amazon Sidewalk, LoRAWAN

