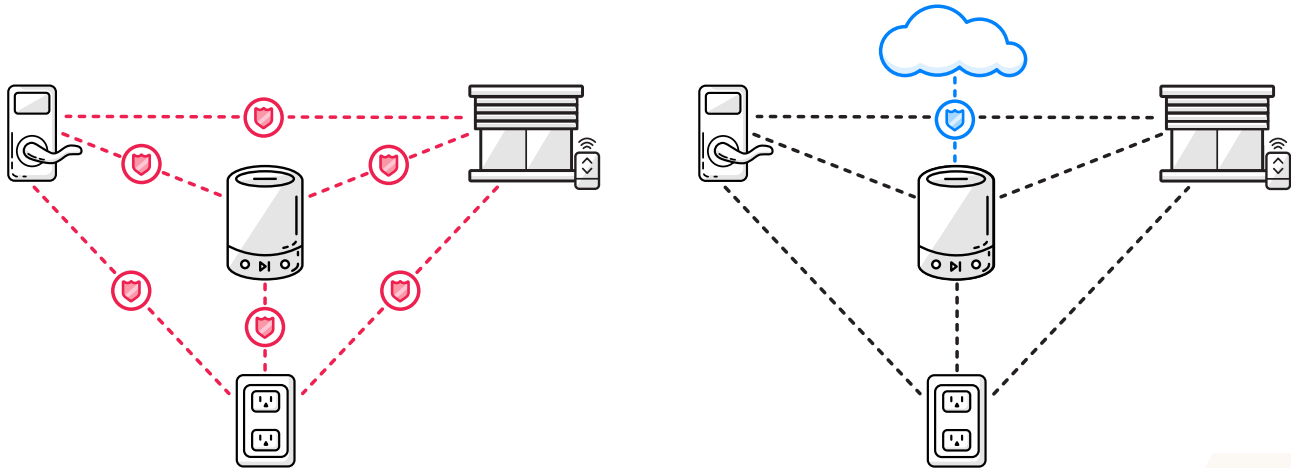# The Full-Stack Solution for All Smart Devices

Zigbee is a highly flexible, extensible, and secure protocol that provides a variety of security methods and tools to serve many applications beyond traditional home automation.
It gives both manufacturers and users the flexibility and control required for their specific application or ecosystem.

Zigbee Security Fundamentals

Modern
Zigbee is continuing to evolve and adapt to current market security requirements and standards. Zigbee PRO 2023 introduced features like Dynamic Link Key that is based on Public/Private key pair and state-of-the-art security curves.

Reliable
Revocable security access that ensures only the devices that are currently allowed can get access to the network. Secure by design with a variety of security mechanisms including synchronous encryption.

Robust
Proven, self-healing mesh network eliminates single points of failure with minimal power consumption. Optimize the level of security for the specific application where the device will be used.

Seamless
Standardized implementation with defined best practices simplifies the user experience.

Proven
Zigbee is the technology of choice for major IoT brands on the market, tested by decades of real-world deployments and use.

Privacy
Zigbee devices are not connected directly to the Internet, keeping all data on the Zigbee network secure and private.

zigbee

Market Proven and Secure Low-Power Mesh Solution

Zigbee is the full stack solution from the mesh protocol to the application layer with billions of Zigbee products already deployed in smart homes and commercial buildings today. Zigbee is backward compatible and delivers the confidence that products and services will work together through standardization and testing of all layers of the stack.

Lighting

Home Automation

Security

Commercial Buildings

Energy/ Utility

Universally Adopted

Extensive library of applications and devices for residential, commercial, industrial and energy markets deployed by hundreds of companies around the world.

Secure

Secure by design with a variety of state-of-the-art security mechanisms. Zigbee works with networks connected to the cloud while isolating applications where data should remain local.

Established and Reliable

Over 2 decades of market adoption and real-world implementations with Billions of chipsets sold world-wide, supported by self-healing mesh that eliminates single points of failure.

Full-Stack Solution

Single technology that delivers improved usability allows companies to choose what level of the stack to build their product.

Low-Power and Green

Optimized for low-power consumption to extend battery life or utilize energy-harvesting with low-memory utilization and small footprint.

Interoperable

Large ecosystem of products to choose from that work seamlessly together.

csa connectivity standards alliance

Learn more at www.csa-iot.org/all-solutions/zigbee and start building with Zigbee today!