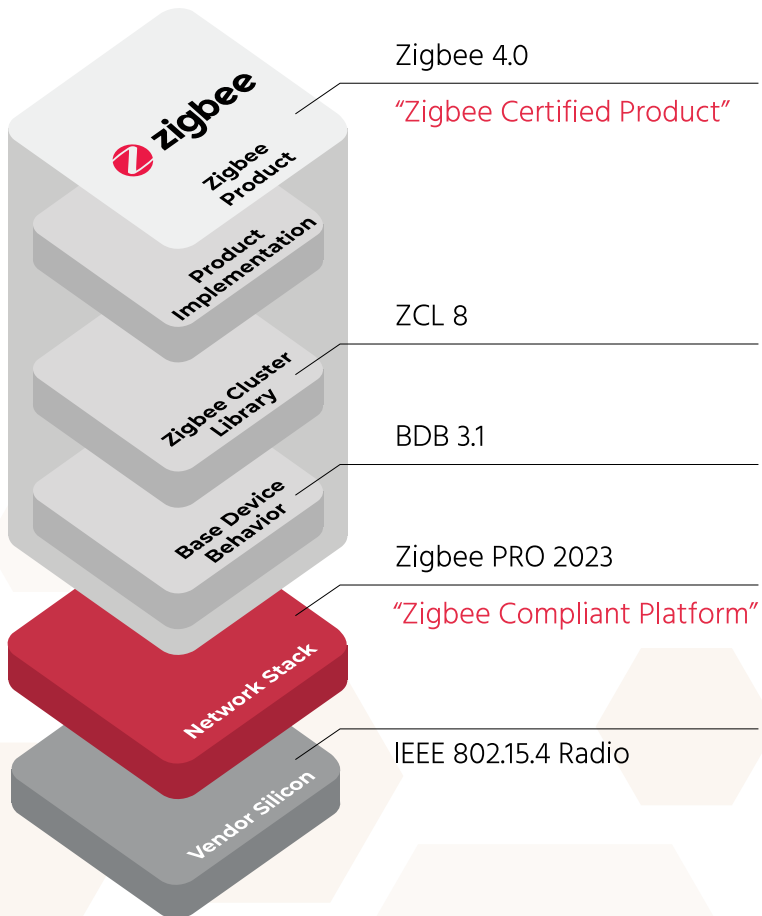


# zigbee 4.0 The Full-Stack Solution for All Smart Devices

Zigbee is a proven, end-to-end solution, from mesh networking to the application layer, with billions of devices deployed across smart homes and commercial buildings. Its backward compatibility, standardization, and rigorous testing ensure reliable interoperability across the entire stack.



## Globally Adopted

Extensive library of applications and devices from hundreds of companies deployed worldwide. Zigbee 4.0 is designed for both long-term sustainable devices and single-use solutions.

## Interoperable

A single application language ensures seamless multi-vendor and backward compatibility, harmonizing traditional Zigbee and Smart Energy devices across universal networks.

## Reliable and Low Power

Low power enables IoT at scale: Zigbee supports devices with multi-year battery life, minimal maintenance, and negligible energy cost.

## Secure

Security is no longer optional, it's inherent. Zigbee 4.0 delivers modern cryptography, secure device authentication, and complete lifecycle security.

## Certification Benefits

### Recertification: CSA Rapid Recertification and Fast Track Programs

- Accelerated time to market
- Reduced recertification costs
- Streamlined recertification for updates
- Faster approval of firmware and feature releases
- Enables fully automated product and platform releases using Zigbee Unified Test Harness (ZUTH)

### Certification:

- Complete automation with the Zigbee Unified Test Harness (ZUTH)

 zigbee 4.0

# zigbee 4.0 Features

Zigbee 4.0 is the foundation for harmonizing traditional Zigbee and Smart Energy devices. It includes comprehensive and proactive security updates, advances user experience with Zigbee Direct, extends the supported bands to sub-GHz frequencies, and provides a number of network stability enhancements to overall network operations, commissioning of devices in dense network environments, and optimization of sleepy-sleepy device communication. Its flexible, largely optional features let manufacturers tailor capabilities to their needs while maintaining backward compatibility with billions of deployed Zigbee devices.



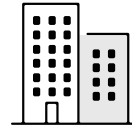
Lighting



Home Automation



Security



Commercial Buildings



Energy/Utility

## Security Updates

Extensive security updates aligned with evolving international security standards with cryptographic agility and more ways to protect the network

## Sub-GHz Frequencies

Increased signal strength, range, and structural penetration with a high data rate for North America and Europe

## Zigbee Direct

Enhanced user experience using Bluetooth Low Energy® for device onboarding and control

## Batch Commissioning

Simplifying large-scale residential and commercial deployments with simultaneous onboarding and configuration of devices

## Sleepy-to Sleepy Device Support

Efficient, direct communication between two sleepy devices using Coordinated Sample Listening (CSL)

## Smart Energy Integration

Foundation for harmonizing traditional Zigbee and Smart Energy devices to interoperate on the same network without requiring a bridge



connectivity  
standards  
alliance

Learn more at [www.csa-iot.org/zigbee](http://www.csa-iot.org/zigbee) and start building with Zigbee today!