

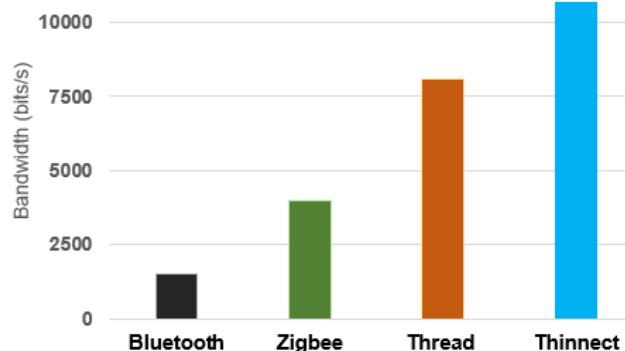
THINNECT IoT Networking Technology offers field-proven features superior to any competing technologies. THINNECT technology is 13 years field-proven in the defense domain, it provides best scalability, reliability and ease of deployment. The technology has been deployed in Smart Cities, Smart Buildings and in Food Safety. THINNECT's IoT security solution has been positively validated and is in use by the governments of 30 countries for border security. The service-based application architecture has been applied in Intelligent Street Lighting in eight countries as well as in Intelligence, Surveillance and Reconnaissance solutions for the European Defense Agency.

THINNECT Mesh offers unique features that cannot be met by the competition. THINNECT Mesh builds on a patented clustering scheme that uses TDMA technology for exceptional robustness and scalability. The TDMA clustering technology manages node power duty cycling while being able to offer sub-200ms latency for control scenarios. Core advantages of THINNECT technology:

- Network bandwidth equally shared in a network, ensuring scalability and QoS for applications
- Prioritization of high priority messages (e.g., control commands)
- Battery-powered routing nodes
- No limit on number of routing nodes in the network
- Low latency on smaller networks and reliable operation on large networks

THINNECT security is an extremely efficient PKI solution built on Elliptic Curve Cryptography. THINNECT is also working on a revolutionary IoT Blockchain security solution, where ledger entries can be created on microcontrollers and the consensus groups can be composed of sensor devices on a wireless mesh.

THINNECT offers full stack communication technology for embedded IoT nodes from mesh network to a service-based application layer, enabling IoT applications of tomorrow.



Bandwidth over a 6-hop connection, adjusted for 100% duty cycle. Data for Bluetooth, Zigbee and Thread from tests conducted by Silicon Labs engineers

THINNECT is field-proven across the globe

- First Intelligent Lighting deployment in 2012
- Intelligent Lighting deployments in 8 countries
- Applied for border security in 30 countries
- Applied in European Defense Agency Intelligence, Surveillance and Reconnaissance solutions
- Applied in Smart City applications in one of the largest Smart City deployments in Europe
- Applied in food quality and safety applications
- Unique advantages across applications