

MeshScape[®] PRIME i-Bean[®] WSN Development Kit

The MeshScape Prime WSN i-Bean Development Kit can be used out of the box to evaluate RF range performance with the simple press of a button. Users interested in further investigating the performance and capabilities of the MeshScape PRIME i-Bean Development Modules can use the Mnet Proxy Software Tool. This PC-based software can demonstrate just how easy it is to create & join networks, send & receive data, collect performance data, change channels, power levels, addresses and perform numerous other tasks.

Features at a Glance

- 2.4GHz IEEE 802.15.4 radio
- 100mW maximum output power
- Integrated PCB F antenna or u.fl connector for external antenna
- Worldwide acceptance: FCC, IC and ETSI
- API support via MNET Proxy Protocol
- Low power operation
- RoHS compliant
- Optional Software Development Kit available

Kit Contents

- 6 MeshScape PRIME i-Bean development boards
- 6 USB cables
- All applicable documentation
- PC software

Applications

- Home Automation
- Security
- Lighting Control
- HVAC Control
- Sensor Networks
- Medical
- Smart Energy
- Industrial Automation
- Defense
- Other

MeshScape[®] PRIME Networking

MeshScape PRIME is an optimized industrial-class wireless mesh network that provides more robust interference resistance, higher scalability in real world environments, and lower power operation:

- **Virtually-On** technology allows all network nodes to run at low power for battery operations
- **Decentralized Distributed Dynamic Routing (D3R)** techniques form a self-configuring, wireless mesh network. D3R uses a node-initiated network formation to enable efficient topology discovery and facilitates network re-formation (required in ever-changing RF environments) by applying "best route" information
- **Low Latency** capability reduces the end-to-end packet delivery time to below seconds within a multi-hop environment, even with a battery-operated mesh node
- **Highly Flexible Dynamic Addressing** eases installation and commissioning for large and complex networks.
- **Peer-to-Peer Communication** to enable direct node-to-node communication and bi-directional communication with high reliability.
- **Full set of APIs** to enable customers to easily add customer applications.
- **Platform Independent** to adopt to customer-preferred hardware platforms.



MeshScape PRIME i-Bean Development Board

Try It For Yourself!

Setting up a wireless mesh network is fast and easy. The MeshScape self-forming and self-healing network is designed for rapid deployment and easy operation.

For more information, visit www.millennialnet.com

