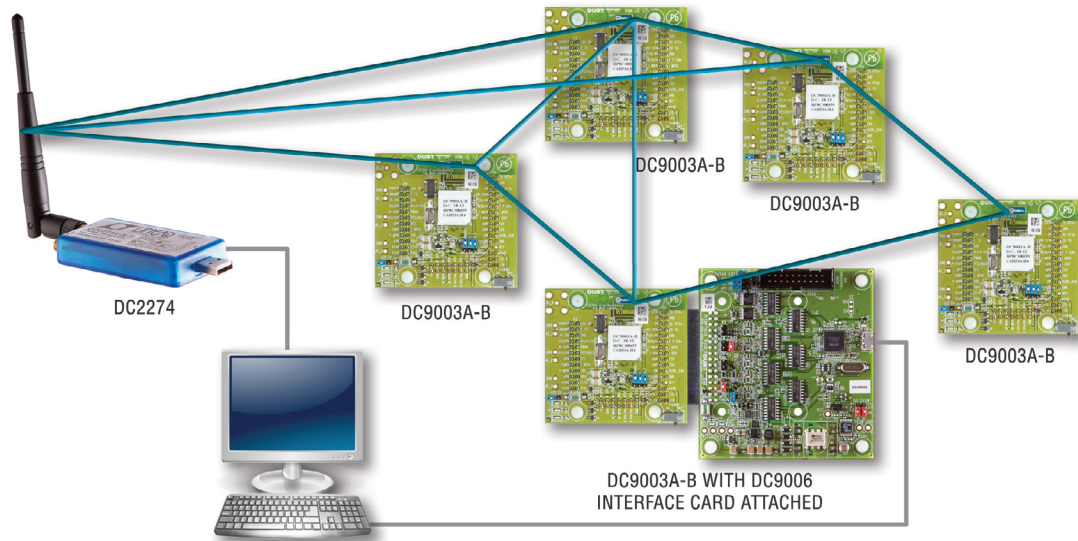


# DC9000 SmartMesh IP Starter Kit



## Wireless Mesh Network, Wired Reliability

The **DC9000 SmartMesh IP™ Starter Kit** provides all the tools for evaluating SmartMesh® network performance with respect to your application needs, including high reliability, ultralow power, scalability and ease of installation. This accelerates device integration and application software development.

The **DC9000 Starter Kit** includes five motes, or nodes (DC9003A-B), to enable you to quickly deploy a multi-hop mesh network in the RF environment specific to your application. The StarGazer evaluation software graphical user interface (GUI) allows you to quickly see the mesh network form, as well as key performance statistics, such as data reliability and latency.

The **DC9003A-B Evaluation/Development Mote Modules** feature easy-to-probe signal pins. In addition, the starter kit provides access to both manager and mote software application programming interfaces (APIs) over USB to enable application software development.

The **DC9000 Starter Kit** operates in the 2.4000GHz to 2.4835GHz international license-free frequency band. Starter kits and demo boards are for evaluation purposes only. It remains the customer's responsibility to verify proper and reliable operation in the actual end application.

### About SmartMesh IP

SmartMesh IP is built for Internet Protocol (IP) compatibility, and is based on 6LoWPAN and 802.15.4e standards. The SmartMesh IP product line achieves unsurpassed levels of networking resilience and reliability with advanced network management and comprehensive security. SmartMesh IP enables unmatched low power consumption, even in harsh, dynamically changing RF environments. Cost-effective, IP-compatible and widely applicable, SmartMesh IP serves an extensive range of applications, such as energy management, building automation, renewable energy and other implementations in smart infrastructure that call for ultralow power.



# SmartMesh IP Components

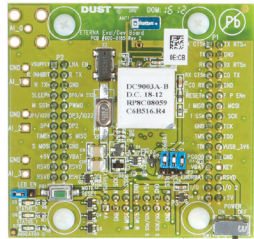
## DC2274 SmartMesh IP USB Network Manager



**SmartMesh IP Network Manager** anchors the SmartMesh IP product line. It provides core networking functionality, enabling the network to achieve unsurpassed levels of resilience, reliability and scalability, with advanced network management and comprehensive security features.

**DC2274 USB Network Manager** incorporates the LTP5902-IPR SmartMesh IP Embedded Manager and provides a USB connection for both power and software access to the manager API UART port.

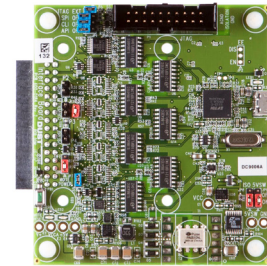
## DC9003A-B SmartMesh IP Evaluation/Development Mote



**SmartMesh IP Networks** are populated by motes, the nodes on the network. Based on the Dust® breakthrough Eterna® technology, the motes are ultralow power, extending battery life to years and many times that of competing products. In addition to extra long battery life, the motes feature an advanced array of features.

**DC9003A-B Evaluation/Development Mote** incorporates the LTC5800-IPM SmartMesh IP Mote-on-Chip™, a chip antenna and a CR2032 coin cell.

## DC9006 Eterna Interface Card



When connected to a DC9003A-B Evaluation/Development Mote, the **DC9006 Eterna interface card** provides a USB connection for both power and software access to the mote API UART port. The DC9006 comes with a DC9004 adapter card (not pictured) enabling the DC9006 to connect to the 10-pin programming and CLI header recommended for customer designs. Please see [www.linear.com/solutions/3102](http://www.linear.com/solutions/3102) for more details.

| Part Number   | Description  |
|---|--|
| <b>Starter Kit</b>                                    |  |
| DC9000  | SmartMesh IP Starter Kit—including the following: <ul style="list-style-type: none"> <li>One USB Network Manager (DC2274)</li> <li>Five Evaluation/Development Motes (DC9003A-B)</li> <li>One Eterna Interface Card (DC9006), Which Includes a DC9004 Adaptor Card</li> <li>Additional CR2032 Batteries</li> <li>Cables</li> </ul> |
| <b>Additional Managers, Motes and Interface Cards</b> |  |
| DC2274  | SmartMesh IP USB Network Manager, 100 Node Capacity  |
| DC9001  | SmartMesh IP Evaluation/Development Manager  |
| DC9003A-B   | SmartMesh IP Evaluation/Development Mote   |
| DC9006  | Eterna Interface Card. Includes a DC9004 Adaptor Card  |
| DC2126A   | Wireless Temperature Sensor with Solar Battery Life Extender   |

To purchase the SmartMesh IP Starter Kit, please contact your local Linear Technology sales representative, or visit [www.linear.com/demo/DC9000](http://www.linear.com/demo/DC9000).

