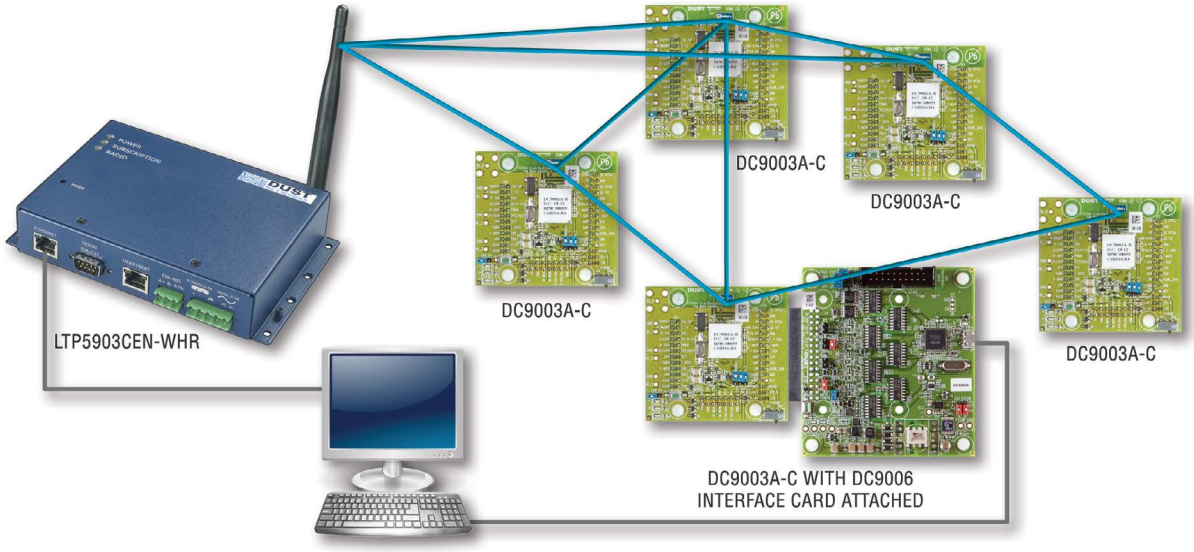
DC9007 SmartMesh WirelessHART Starter Kit



Wireless Mesh Network, Wired Reliability

The DC9007 SmartMesh® WirelessHART 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 development.

The DC9007 Starter Kit includes five motes, or nodes (DC9003A-C), to enable users to quickly deploy a multi-hop mesh network in the RF environment specific to your application. The 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-C 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) to enable application software development.

The DC9007 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 WirelessHART

SmartMesh WirelessHART products are designed for the harshest industrial environments, where low power, reliability, resilience and scalability are key. They are well suited for general industrial applications as well as WirelessHART-specific designs. SmartMesh WirelessHART complies with the WirelessHART (IEC 62591) standard, offers the lowest power consumption in its class, and is the most widely used WirelessHART product available.

Field proven and robust, even in the harshest environments, the SmartMesh WirelessHART product line is a full mesh networking solution for general industrial applications. For applications that are not HART-specific, no knowledge of the WirelessHART specification is needed to integrate with SmartMesh WirelessHART. Simply proceed without the optional HART application layer.

dust networks

LT, LTC, LTM, Linear Technology, the Linear logo, Dust, Dust Networks, Eterna and SmartMesh are registered trademarks and the Dust Networks logo, Manager-on-Chip, Mote-on-Chip, and SmartMesh IP are trademarks of Linear Technology Corporation. All other trademarks are the property of their respective owners.

LINEAR TECHNOLOGY

SmartMesh WirelessHART Components

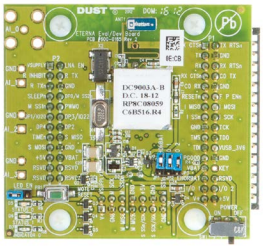
LTP5903CEN-WHR SmartMesh WirelessHART Packaged Manager



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

LTP5903CEN-WHR Packaged Network Manager incorporates the LTP5903IPC-WHR SmartMesh WirelessHART Embedded Manager and provides connections for power and manager API via RS-232 serial or Ethernet.

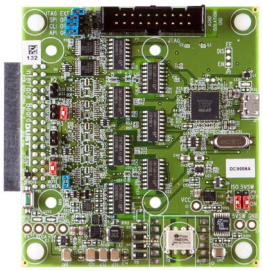
DC9003A-C SmartMesh WirelessHART Evaluation/Development Mote



SmartMesh WirelessHART networks are populated by motes, the nodes on the network. Based on the Dust® break-through Eterna® technology, the motes are ultralow power, extending battery life to years and many times that of com-peting products. In addition to extra long battery life, the motes feature an advanced array of features.

DC9003A-C Evaluation/Development Mote incorporates the LTC®5800-WHM SmartMesh WirelessHART Mote-on-Chip™, a chip antenna and a CR2032 coin cell.

DC9006 Eterna Interface Card



When connected to a DC9003A-C Evaluation/Development Mote, the **DC9006 Eterna interface card** provides a USB connection for both power and software access to the mote API UART port.

Part Number	Description
Starter Kit	
DC9007	SmartMesh WirelessHART Starter Kit—includes the following: ▪ One Packaged Manager (LTP5903CEN-WHR) ▪ Five Evaluation/Development Motes (DC9003A-C) ▪ One Eterna Interface Card (DC9006) ▪ Additional CR2032 Batteries ▪ Cables
Additional Managers, Motes and Interface Cards	
LTP5903CEN-WHR	SmartMesh WirelessHART Packaged Manager
DC9003A-C	SmartMesh WirelessHART Evaluation/Development Mote
DC9006	Eterna Interface Card

To purchase the SmartMesh WirelessHART Starter Kit, please contact your local Linear Technology sales representative, or visit www.linear.com/demo/DC9007.

dust networks