# IOTEAM

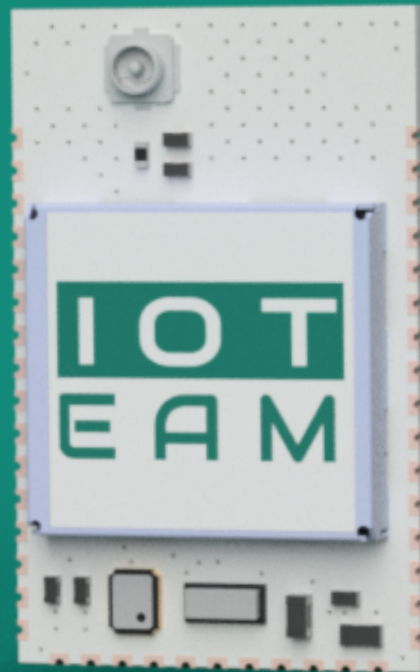## Dusty PCB-Ant and Dusty U.FL



ITM-DYPA-B-01
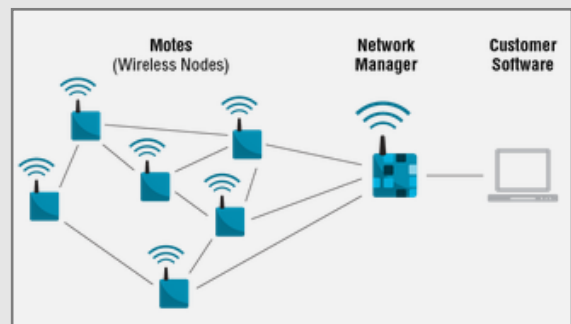Dusty PCB Ant

ITM-DYUF-B-01
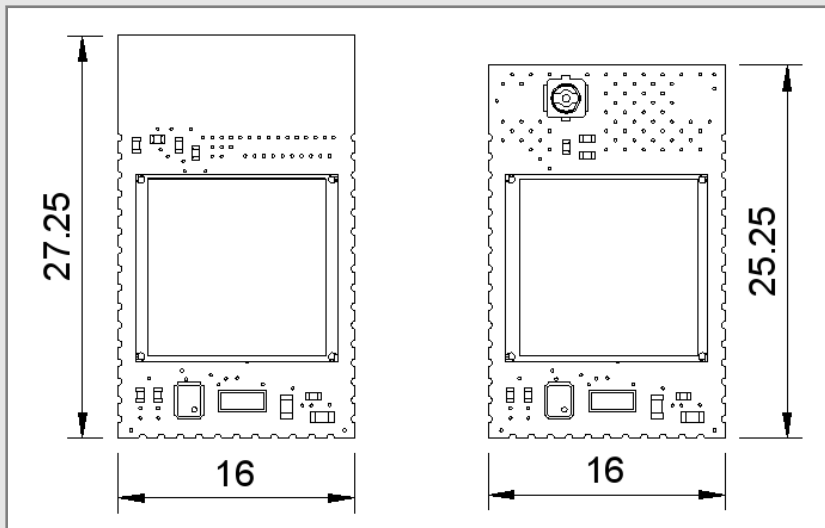Dusty U.FL Ant Conn

## Dusty module

Dusty module is a PCBA product incorporating the Linear Technology®'s LTC®5800-IPM SoC running SmartMesh IP embedded networking software. The Dusty module comes complete with an onboard PCB antenna or U.FL connector, crystals and modular RF certifications.



### SmartMesh IP Functional Overview

A SmartMesh IP network consists of a highly scalable self-forming multi-hop mesh of wireless nodes, known as motes, which collect and relay data, and a network manager that monitors and manages network performance and security, and exchanges data with a host application.
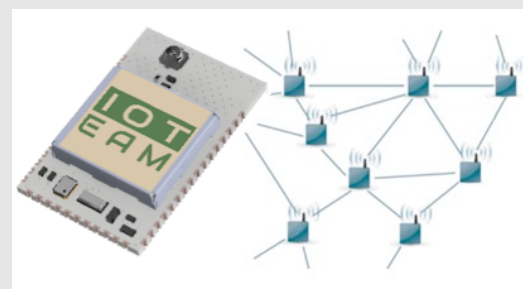
## Description

The Dusty module is a printed circuit board assembly (PCBA) product with on-board PCB antenna or U.FL connector incorporating an LTC5800-IPM, a highly integrated low power radio design with an ARM Cortex-M3 32-bit microprocessor running SmartMesh IP embedded networking software. SmartMesh IP wireless sensor networks are self managing, low power internet protocol (IP) networks built from wireless nodes called motes.

With SmartMesh IP time-synchronized networks, all motes in the network may route, source or terminate data, while providing many years of battery powered operation. SmartMesh IP is a highly flexible network with proven reliability and low power performance in an easy-to-integrate platform.

The Dusty's behaviour in a SmartMesh IP network is determined by the choice of SmartMesh IP network software loaded: Wireless Mote, EManager, or Access Point Mote™ in a SmartMesh IP network. The SmartMesh IP software provided is fully tested and validated, and is readily configured via a software Application Programming Interface.



## Features

▸ PCBA module with PCB antenna or U.FL
▸ Integrates 2.4 GHz, IEEE 802.15.4e System-on-Chip, Complete with Embedded SmartMesh Networking Software
  ▸ >99.999% Network Reliability in the Most Challenging RF Environments
  ▸ Sub 50µA Routing Nodes
▸ Serves as either a Wireless Mote, EManager, or Access Point Mote in a SmartMesh IP network

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