



The MultiConnect* mDot™ Box is a portable, handheld LoRa® end-point device that simplifies and speeds up proof of concept development and is ideal for site surveys. Designed to assist OEMs & Enterprises quickly determine if LoRa is the right technology to solve key industrial IoT issues: how to effectively connect to, and manage, thousands of assets and sensors in the field to meet the cost, performance and strategic needs of the business. With the mDot Box, users can quickly obtain and evaluate data to see how LoRa technology performs at any given location or in their unique IoT application. Very easy to use, the mDot Box enables users to make data driven decisions about the fit of LoRa for their use cases without the need for heavy configuration or embedded design skills.

The mDot Box features the MultiConnect® mDot™, a low cost programmable LoRaWAN™ ready module in a handheld case, battery operated with an LCD screen for displaying menu and device navigation information as well as network, test mode, GPS and sensor status data. Two push button controls are also included providing menu navigation functions and two LEDs for displaying network and GPS status. The mDot Box also has several built in sensors including temperature, ambient light, pressure, electrical current and a 3-Axis accelerometer. It comes standard with GPS to enable site survey and location-based proof of concept testing. This versatile device can be used purely as a communications device or programmed with a custom application using the integrated ARM® mbed Enabled™ programmable MultiConnect mDot. The mDot Box was developed to work with any LoRaWAN compliant gateway, including MultiTech's MultiConnect® Conduit™, the industry's most configurable, manageable, and scalable communications gateway.

BENEFITS

ARM mbed

 Quickly and easily perform LoRa site surveys with the mobile mDot Box

LoRa Alliance

- Measure LoRa distance and building penetration performance for line of sight or urban/obstructed use cases
- User friendly LoRa evaluation tool no heavy configuration or embedded design skills needed
- View LoRa site survey data your way
 in the Cloud, on the gateway or
 export directly to your laptop

FEATURES

- LCD screen displays menu options, test mode data as well as sensor data
- GPS enabled for highly accurate location-based site surveys
- Flexibility to operate with any LoRaWAN 1.0.1 compliant gateway
- Supports the European 868 MHz and North America/AU 915 MHz ISM bands

www.multitech.com/mDotBox

MULTICONNECT® MDOT™ BOX

With the click of a button, the mDot Box provides a wealth of valuable information such as location, spreading factor, throughput, Received Signal Strength Indicator (RSSI), time, date activity and power level usage at the very locations companies are planning to deploy LoRa technology. Viewing and analyzing site survey data is easy thanks to the versatility of the mDot Box which provides multiple ways of exporting data, including to the customer's preferred Cloud platform.

Extremely easy to use, customize and manage, the mDot Box makes evaluating LoRa technology for IoT applications as easy as clicking a button.

Operational Mode	Functional Description
Site Survey Single	In Site Survey Single Mode, the user can test connectivity with the gateway at different data rate and power combinations. Surveys are assigned a survey index so they can be referenced later. The result of each survey, including the survey index, is saved in the Survey Data File.
Site Survey Sweep	In Site Survey Sweep Mode, connectivity with the gateway is tested over a range of power levels and data rates. Sweeps are assigned a sweep index so they can be referenced later. The result of each sweep, including the sweep index and the results of every survey in the sweep, is saved in the Survey Data File. The user can configure the minimum and maximum data rates and power levels to use for sweeps using Configuration Mode.
Demo	LoRa Demo Mode demonstrates a typical use case for a MultiConnect mDot. Sensor data is gathered and updated on the screen in real time. The sensor data is also sent to the gateway periodically at a user defined interval or triggered on the push of a button, depending on the mode of operation selected.

PACKAGE CONTENTS

- MTDOT-BOX LoRa Evaluation and Site Survey Box (868 or 915 MHz)
- Micro Dev Kit (MTMDK-ST-MDOT)
- Programming Cable
- 9 Volt Battery

- External LoRa Antenna
- Quick Start Guide
- · Quick Start Guide

ORDERING INFORMATION

Model MTDOT-BOX-G-915-B	Description LoRa Evaluation and Site Survey Box w/GPS - 915 MHz	Region NAM
European Model Model MTDOT-BOX-G-868-B	Description LoRa Evaluation and Site Survey Box w/GPS - 868 MHz	Region EU/GB
Australian Model Model MTDOT-BOX-G-915-AU-B	Description LoRa Evaluation and Site Survey Box w/GPS - AU915 MHz	Region AU
Related Products Model MTDOT-EVB-915 MTDOT-EVB-868	Description LoRa Evaluation and Development Board - 915 MHz LoRa Evaluation and Development Board - 868 MHz	Region NAM EU/GB
MTDOT-EVB-915-AU	LoRa Evaluation and Development Board - AU915 MHz	AU

Go to www.multitech.com for detailed product model numbers.

See the MultiConnect mDot home page for addition information and product specifications.

Produced in the U.S. of U.S. and non-U.S. components. Features and specifications are subject to change without notice.

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SERVICES & WARRANTY

MultiTech's comprehensive
Support Services programs offer
a full array of options to suit your
specific needs. These services
are aimed at protecting your
investment, extending the life
of your solution or product, and
reducing total cost of ownership.
Our seasoned technical experts,
with an average tenure of more
than 10 years, can walk you
through smooth installations,
troubleshoot issues and help
you with configurations.

INSTALLATION SUPPORT

MultiTech's Installation Support Service delivers priority service with the ability to work oneon-one with an experienced MultiTech technical support engineer, to guide you through the installation process for our products.

TECHNICAL SUPPORT SERVICES

At MultiTech, we're committed to providing you personalized attention and quality service while providing you a quick response to your product support needs. We have several options of support for you to choose from.

For additional information on Support Services as well as other service offerings, please contact your MultiTech representative or visit www.multitech.com/support.go

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