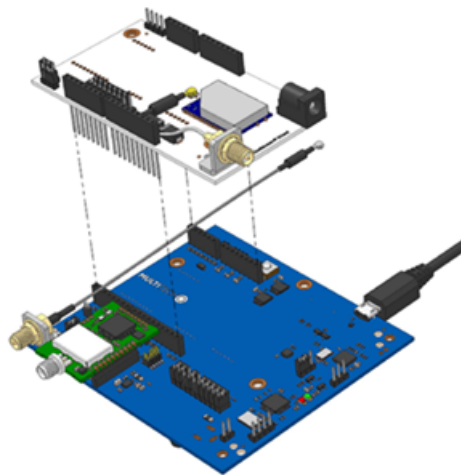


Installing an Arduino Shield with an mDot



To use an Arduino Shield with an mDot:

Note: When using an Arduino Shield with an mDot, install the mDot on the developer board before installing the Arduino Shield.

1. Disable the developer card's serial port by adding a jumper to JP95.
2. Align the Arduino Shield on the developer board as shown.

Safety and Regulatory Content

For detailed safety and regulatory content, refer to the Developer Guide for your device.

This device complies with Part 15 of the FCC rules and with ICES-003 of industry Canada for a Class A digital apparatus. Operation of this device is subject to the following conditions: (1) This device may not cause harmful interference and (2) This device must accept any interference that may cause undesired operation.

MultiTech declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The declaration of conformity may be requested at <https://support.multitech.com>.

Related Documentation

mbed Interface

The mbed platform provides free software libraries, hardware designs and online tools for professional rapid prototyping of products based on ARM microcontrollers. The platform includes a standards-based C/C++ SDK, a microcontroller HDK and supported development boards, an online compiler and online developer collaboration tools.

mbed Links

Explore mbed: <http://developer.mbed.org/explore/>

mbed Getting Started: <http://developer.mbed.org/getting-started/>

mbed Handbook: <http://developer.mbed.org/handbook/Homepage>

mDot mbed Documentation

Install the mbed driver for development testing. The driver linked here allows your Windows PC to detect the development board.

<https://developer.mbed.org/platforms/MTS-mDot-F411/>

Use Cases, Application Notes, and Related Product Documentation

Use cases, application notes, and documentation for related products such as Conduit gateway and the LoRa accessory card are available on the MultiTech developer site at: www.multitech.net

For the mDot Developer Guide go to: www.multitech.net/developer/products/multiconnect-mdot

The mDot ships from the factory pre-loaded with our custom AT Command Firmware. For more information go to: <https://developer.mbed.org/platforms/MTS-mDot-F411/#factory-firmware>

MultiConnect® mDot™ Developer Kit Quick Start Guide

Document Number: 82101553L

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Knowledge Base

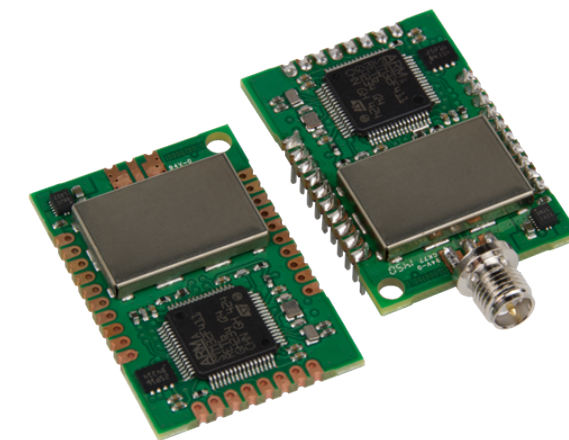
<http://www.multitech.com/kb.go>

U.S., Canada, all others:

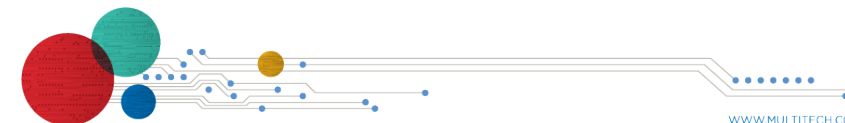
support@multitech.com

(800) 972-2439 or (763) 717-5863

Business Hours: M-F, 8am to 5pm CT



MultiConnect® mDot™ Developer Kit MTUDK2-ST-MDOT Quick Start Guide



Welcome

This Quick Start includes information on the MultiConnect® mDot™ Developer Kit.

The MultiConnect mDot is a secure, programmable, long-range and low-power RF module that provides data connectivity to sensors, industrial equipment, and remote appliances.

The mDot features an integrated ARM® Cortex® -M4 processor and mbed compatible software library for developers to control, monitor, and bring edge intelligence to their Internet of Things (IoT) applications.

Developer Board

The MTUDK2-ST-MDOT Developer Kit supports development with mDot devices. Use the developer board to streamline your development efforts and evaluate your products and applications. Easily plug in your communications device and use the developer kit for testing, programming, and evaluation.

Features

- USB and serial interfaces
- USB port for mbed development environment
- RS-232 DB-9 connector for serial interface
- Arduino shield socket

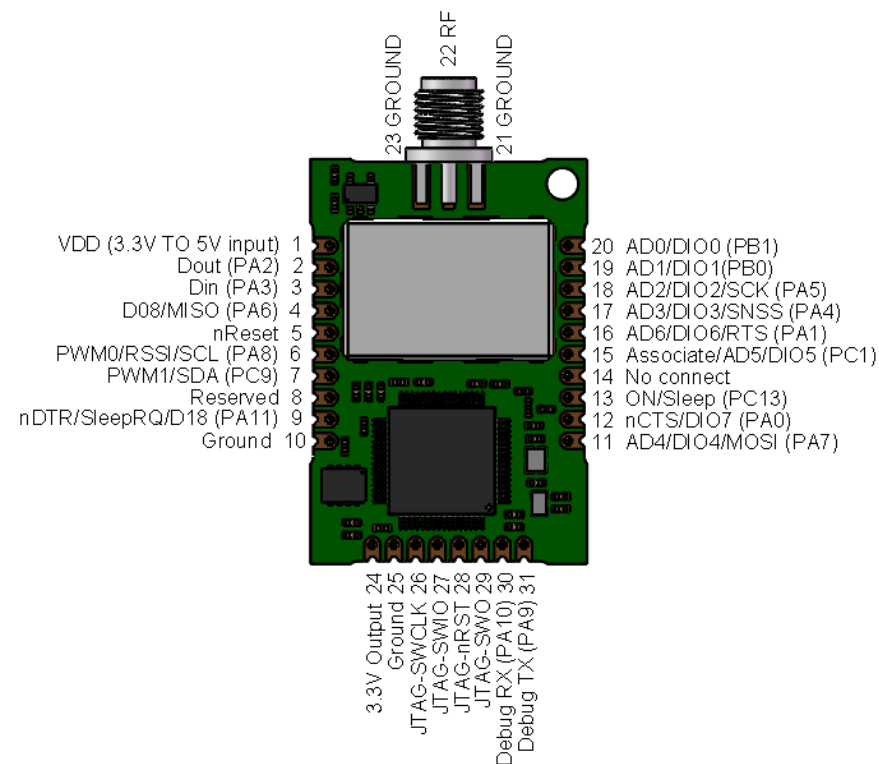
Package Contents

Your Developer Kit (MTUDK2-ST-MDOT) includes the following:

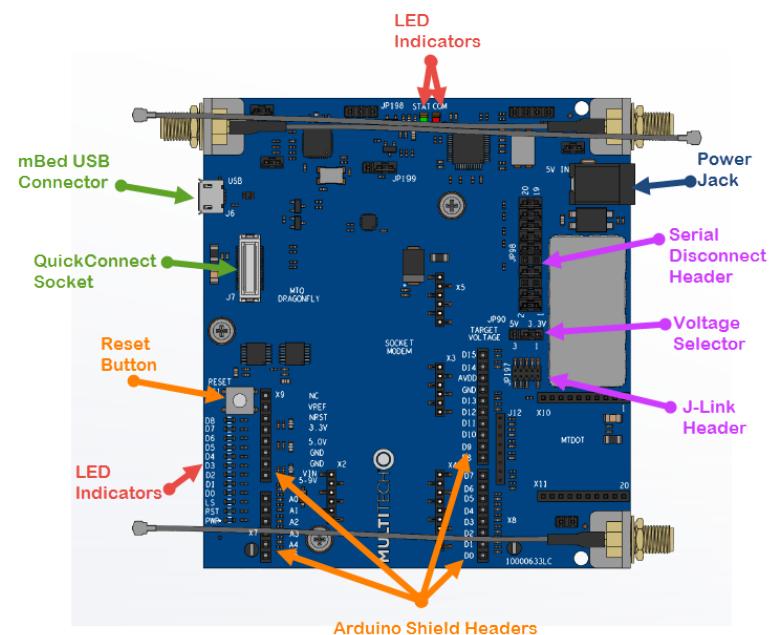
Developer Board	1 - MTUDK 2.0 mDot Developer Board
Cables	1 - Micro USB Cable
Antennas	1 - 868-915 MHz Antenna 1 - RSMA-to-U.FL Antenna cable

Customer Notices	1 - Quick Start Guide
Additional	1 - Promotional Screwdriver

mDot Pinout

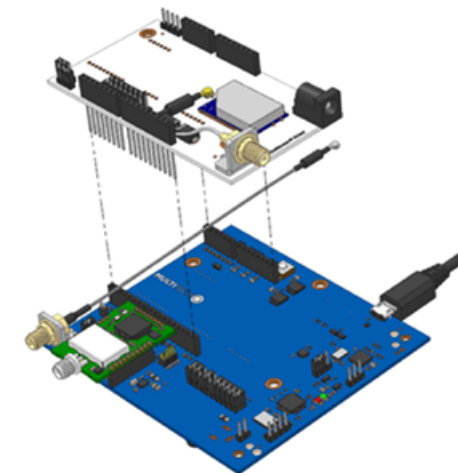


Developer Board



Note: The development board derives power from the USB connection. The Power Jack connects to the Arduino shield socket. If the Arduino shield needs 5 V, use a 5 V power supply. A 9 V supply will not be regulated down to 5 V.

Installing an mDot



To install an mDot:

1. Align the mDot to the developer board as shown.
2. Gently press the mDot into the connectors.

Connecting an Antenna through Developer Board SMA Connectors:

Note: Depending on mDot model you may need to connect the RSMA-to-U.FL antenna cable.

1. Finger tighten the antenna to the SMA connector.
2. Attach the U.FL connector from the cable to the connector on the device.