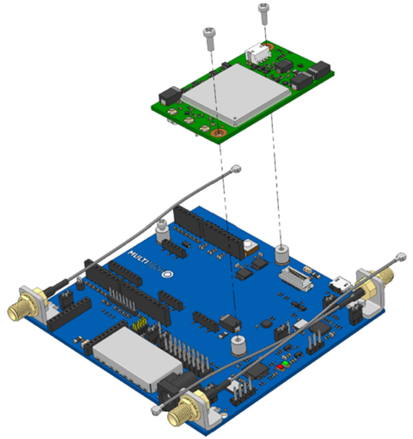
Mounting a Dragonfly (MTQ)



To install a Dragonfly:

1. Remove the screws from the developer board.
2. Align the Dragonfly on the developer board as shown.
3. Secure the Dragonfly with the screws.

Installing a SIM Card on a Dragonfly

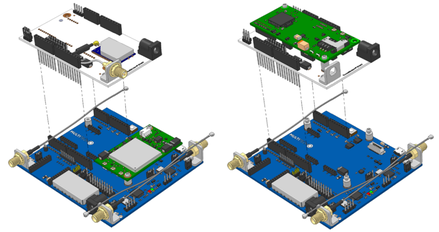
When using the Dragonfly with a developer board, install the SIM card before mounting the Dragonfly on the developer board.

To install the SIM card:

- With the contact side facing down, align the notched edge as shown on the Dragonfly's SIM holder and slide the SIM card completely into the SIM holder.

Using an Arduino Shield

Dragonfly **SocketModem**



Dragonfly Arduino Pins

Signals (micro pin)		Arduino Shield				Signals (micro pin)
				D15		D15/SCL/SS1 (PB8)
				D14		D14/SDA/SRDY (PB9)
				AVDD		3.3V
				GND		Ground
			NC	D13	X6	D13/SCK (PA5)
3.3V			VREF	D12		D12/MISO (PA6)
nReset, from pushbutton			nRST	D11		D11/MOSI (PB5)
3.3V			3.3V	D10		D10/SS2 (PC8)
5.0V	X9		5.0V	D9		D9 (PB13)
Ground			GND	D8		D8/RI (PB1)
Ground			GND			
5-9V input from J3			VIN			
				D7		D7/DTR (PA8)
				D6		D6/CTS (PA1)
A0 (PC2)			A0	D5		D5/DSR (PA9)
A1 (PC0)			A1	D4	X8	D4/DCD (PA7)
A2 (PC4)	X7		A2	D3		D3/RTS (PA0)
A3 (PB0)			A3	D2		D2 (PB15)
A4 (PC1)			A4	D1		D1/RXD (PA2)
DIO (PC9)			A5	D0		D0/TXD (PA3)

Universal Developer Kit 2.0 Developer Guide

Part Number: 82101351L

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Universal Developer Kit 2 Cell

MTUDK2-ST-Cell Quick Start

Overview

Thank you for purchasing the Developer Kit for SocketModem and Dragonfly cellular devices provides a convenient platform enabling you to streamline your development efforts.

Related Documentation

Developer board information is included in the documentation for your SocketModem or Dragonfly Device.

Safety and Regulatory Content

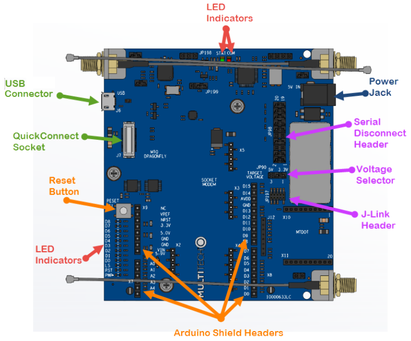
For safety and regulatory content, refer to the Developer Guide for your model.

Package Contents

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

Developer Board	1 - MTUDK 2.0 Cell Developer Board
Power Supply	1 - 100-240V 9V-1.7A power supply with removable blades, 1 - NAM blade/plug, 1 - EURO blade/plug, 1 - UK blade/plug, 1-AU/NZ blade/plug
Cables	1 -1 meter USB 2.01 mini 24AWG P-G, 1 - Coax SMA-U.FL 4.5: CROHS
Antennas	1 - 3.3V magnetic GPS antenna , 1 - LTE SMA antenna
Customer Notices	Quick Start
Additional	One promotional screwdriver

Developer Board

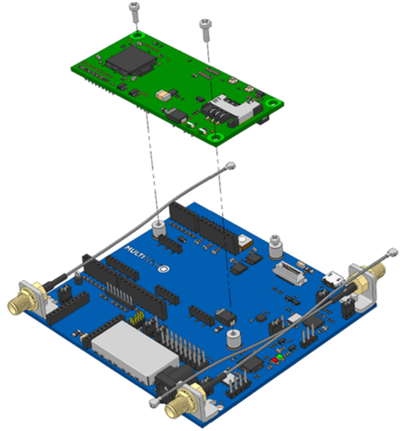


Board Components

Label	Description
Voltage Selector	Selects between the on-board 3.3V or 5V regulator for powering a SocketModem or mDot Factory default operating voltage is 5V.

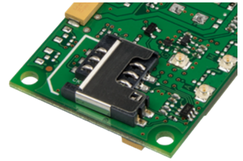
Label	Description
J6	USB connection for mbed, serial, and SocketModem. Attaches to the ST Micro controller. This provides access to two interfaces, one used to program the mDot and the other for debug messages. For the MTQ use USB connector on the MTQ. For information on connecting to and using mbed, refer to the device guide for your MTQ model. (Not available for SocketModems.)
J7	QuickConnect Socket.
JP98	Serial Disconnect Header. Pins D0-D8 are connected to the Arduino headers and the DB9 serial port. Remove these jumpers to disconnect from the RS232 transceiver chip.
JP197	J-Link Header, used for JTAG access to the mDot. This requires installing resistors R94-96 & 98 and removing R88-990 & 92. See *Chapter 12 Developer Board Schematics*.
S1	Reset Button. Use to reset the processor of the device attached to the board.
X2	SocketModem, USB Connector.
X3	SocketModem, GPIO (not connected).
X4	SocketModem Serial Connector.
X5	SocketModem Power Connector.
X6	Arduino Shield Connector.
X7	Arduino Shield Connector.
X8	Arduino Shield Connector.
X9	Arduino Shield Connector.
X10	MTDOT Connector.
X11	MTDOT Connector.
J12	MTDOT Programming Header.

Mounting a SocketModem



1. Remove the screws from the developer board.
2. Align the SocketModem on the developer board as shown.
3. Secure the SocketModem with the screws.

Installing a SIM Card on a Socketmodem



When using the SocketModem with a developer board, mount the SocketModem on the developer board before installing the SIM Card.

To install the SIM Card:

- With the contact side facing down, align the notched edge as outlined on the SocketModem and slide the SIM Card completely into the SIM holder.