SDK-9603 USER GUIDE

Introduction

The steps involved in using the SDK-9603 for testing the Iridium 9603 transceiver are described below.

Powering up the SDK9603

There are two ways of supplying DC power to the SDK9603.

1. Use the red (+) and black (-) banana jacks to provide 6-15 VDC. Short pins 1 and 2 of jumper J2 to select this option.
2. Use the DC power jack to provide regulated DC supply from a wall adaptor, in the range of 6-15 VDC. Short pins 2 and 3 of jumper J2 to select this option.

The "9603 Power" LED lights up to indicate when power is available on the board. The jumper location is as shown inside the red box in Fig 1.

5V Supply Jumper

An on board jumper, J4 allows 5V supply to be connected or disconnected to the 9603 transceiver. This allows the user to monitor the current draw of the transceiver at its supply voltage of 5V. The jumper location is as shown inside the yellow box in Fig 1.
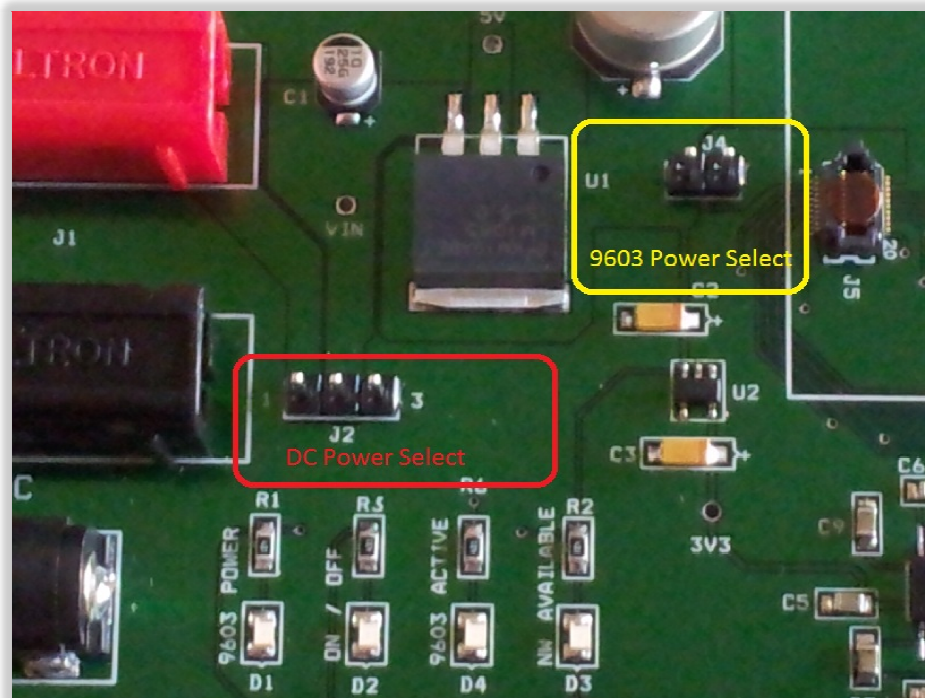

Fig 1. Jumper Location

ON/OFF Switch

The 9603 transceiver can be turned ON/OFF using toggle switch SW1, even when DC supply is available to the transceiver. This is only a digital control to the transceiver and does not shut off power to the transceiver.

The "9603 Active" and "ON/OFF" indicators will both turn on when power supply is available to the transceiver and the toggle switch is set to the "ON" position.
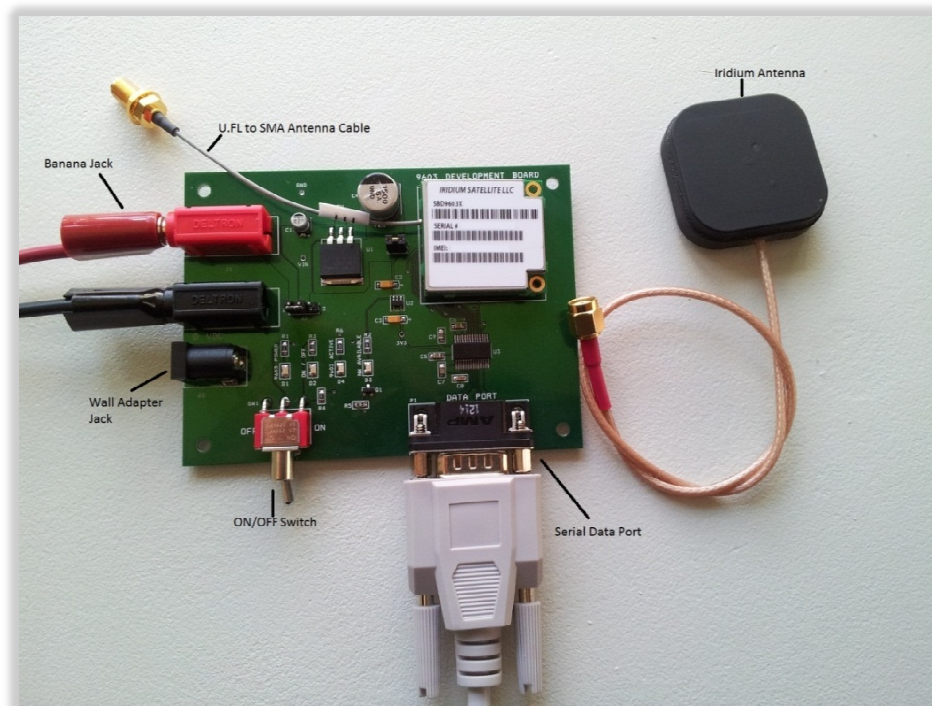

Fig 2. SDK-9603 Peripherals

Serial Data Port

This is the communication interface between the 9603 transceiver and a Data Terminal Equipment (DTE) such as a PC. A logic level convertor chip is provided on the test interface board to facilitate communication between an RS232 interface DTE and the 9603 transceiver which has a 3.3V CMOS interface. The serial data port supports 9-wire RS232 communication between the transceiver and the DTE using a straight-through (standard) 9 pin D-type cable, such as one supplied with the SDK9603 kit. This port supports the AT command interface to the 9603 transceiver.

The factory default setting of a 9603 transceiver is 8 bits, 1 stop bit, no parity and no handshake at a baud rate of 19200 bps.

Network Availability

A visual indication of Iridium satellite visibility is available on the test interface board, by means of the "NW Available" LED.

Revision History

Version	Date	Comments
1.0	14-Jan-2013	Initial Release.
1.1	15-Aug-2014	Formatting updates.