

SPI / UART to CAN Module BM42D7611-1 User's Guide

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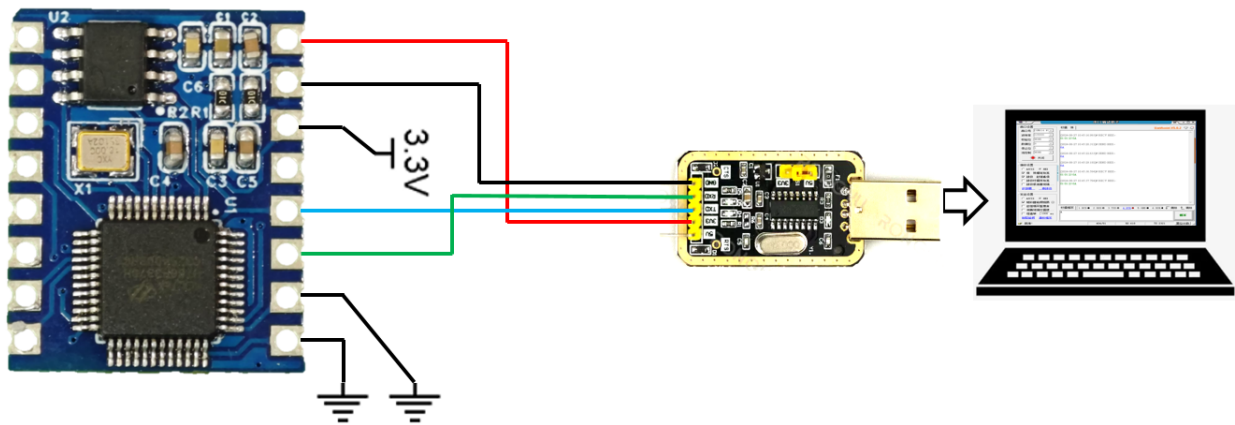
Description

The BM42D7611-1 is an SPI/UART to CAN module. This article provides a detailed guide on configuring parameters and demonstrates how to transmit and receive data via the CAN Bus.

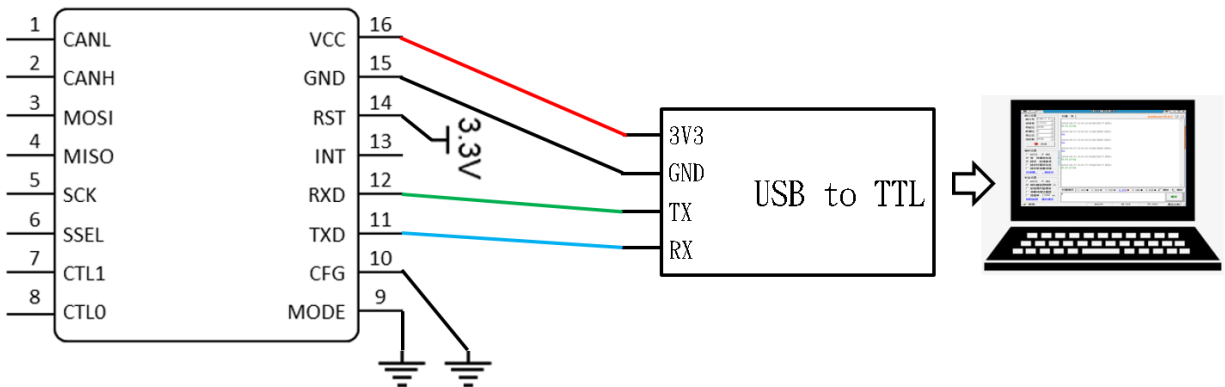
Example

Example 1 : CAN Parameters Configuration

It is necessary to configure the product's parameters before using it for the first time. We use a USB-to-TTL converter to connect the product to a computer and configure its parameters using the Serial Port Helper software.



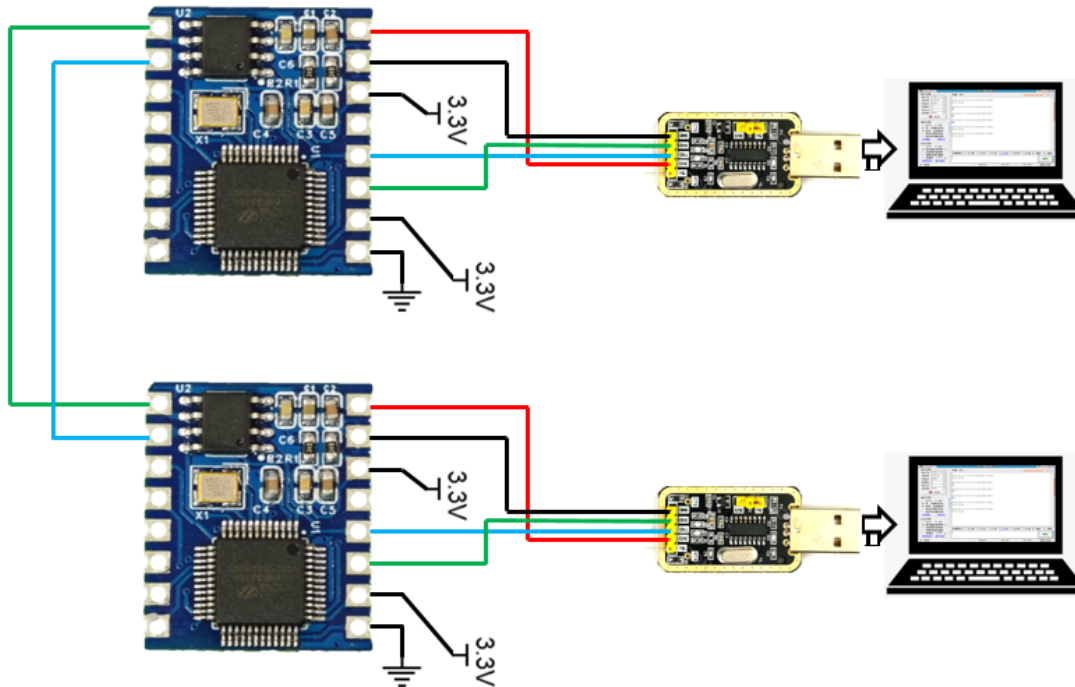
Wiring for Parameter Configuration



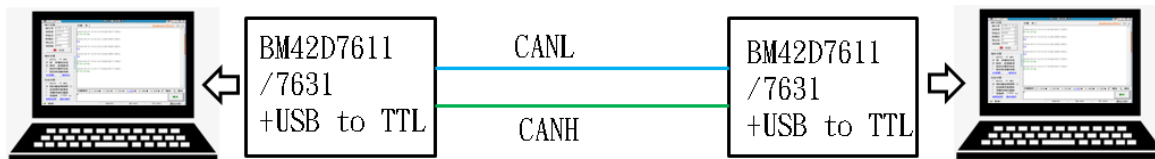
Block Diagram for Parameter Configuration

Example 2: CAN Bus Communication

Users must configure the CAN communication parameters as shown in Example 1 before using the product for the first time. This example demonstrates communication between two modules via the CAN bus, and receive/transmit data through the Serial Port Helper.



CAN Communication Wiring



CAN Communication Block Diagram

Open the software to view the transmitted and received data (the baud rate is set as shown in Example 1). In this demo, either side can transmit data while the other side receives it. The picture below demonstrates the left side transmitting 0x0A, and the right side receives 01 01 23 0A, where 01 indicates 1 byte, 01 23 is the transmitter's ID, and 0A is the data.



CAN Communication Demo