

Neoway[®] 有方

N11 EVK User Guide

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Neoway Product Document



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Notice

This document provides guide for users to use N11.

This document is intended for system engineers (SEs), development engineers, and test engineers.

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About This Document

Scope

This document is applicable to N11 series.




Audience

This document is intended for [system engineers \(SEs\)](#), [development engineers](#), and [test engineers](#).

Change History

Issue	Date	Change	Changed By
1.0	2018-06	Initial draft	Chi Cheng

Conventions

Symbol	Indication
 Warning	This warning symbol means danger. You are in a situation that could cause fatal device damage or even bodily damage.
 Caution	Means reader be careful. In this situation, you might perform an action that could result in module or product damages.
 Note	Means note or tips for readers to use the module

Related Documents

Neoway_N11_Datasheet

Neoway_N11_Product_Specifications

Neoway_N11_AT_Command_Manual

Neoway_N11_EVK_User_Guide

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1 Overview

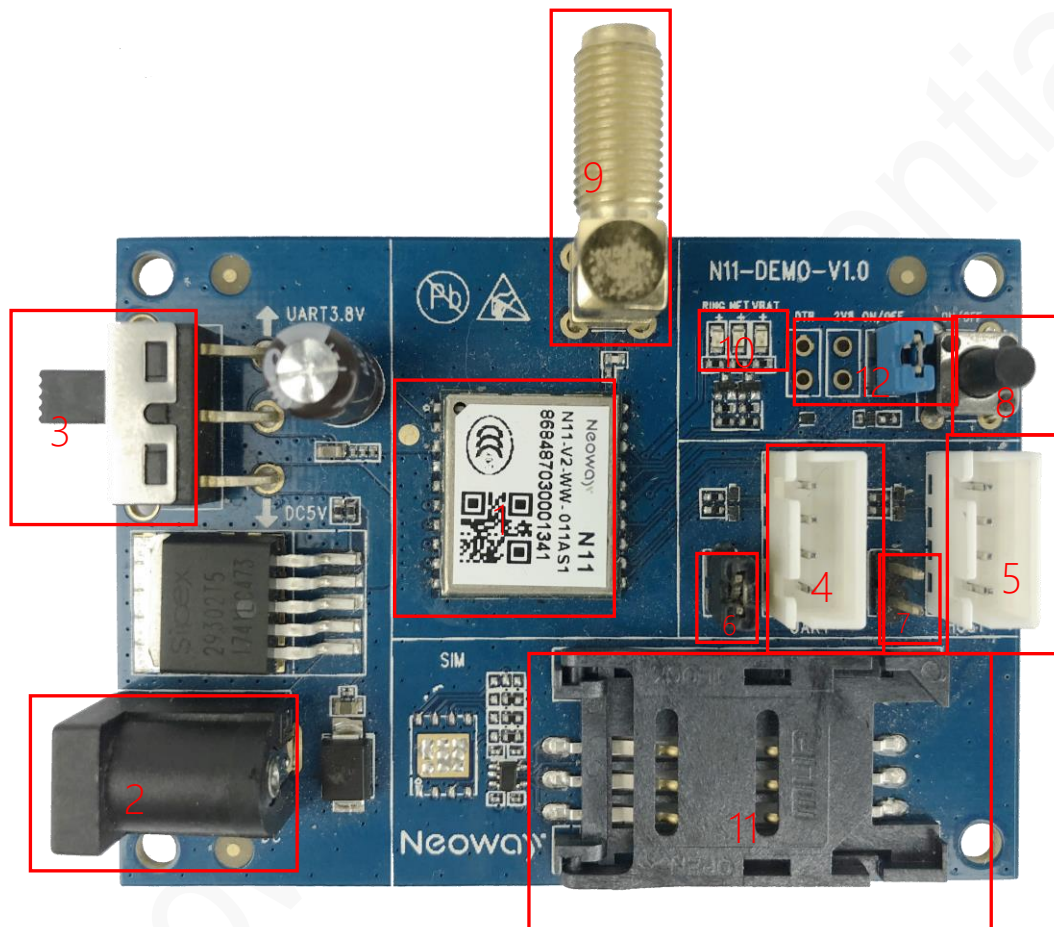
N11 EVB is designed for customers to commission N11 for their applications. It provides various peripheral interfaces, including power supply, UART, SIM card, antenna, and ON/OFF. Customers can perform commissioning after connecting to the power supply and UART.

N11 EVK is the suite contains the following parts:

- N11 EVB (including the module)
- M5X0-PWR power supply board
- Others (5V/2A adapter, GPRS antenna)

2 Functions and Interfaces

2.1 Top View



The components marked in red are respectively:

- N11 module
- 5V DC input, adapter power supply
- Switch for main power supply
- UART1
- UART2
- UART1 pin jumper

- Position of UART2 pin jumper
- ON/OFF button
- GPRS antenna interface
- LED indicators (RING, Network, ON/OFF indicator)
- SIM card connector
- SLEEP and ON/OFF pin jumper

2.2 Buttons and Interfaces

The following table lists the interfaces and buttons of N11 EVB.

Interface	Description
5V DC interface	Main power supply input, 3.6 V to 4.5 V
Power supply switch	To switch the type of main power supply
SIM card interface	SIM card interface
UART1	Commissioning, download, and power supply for N11 modules AT command query for N11 V2 modules
UART2	Log capturing for N11 Commissioning, download, and power supply, and log capturing for N11 V2 modules
Antenna	GPRS antenna
ON/OFF	Power on button. Hold it for 1.2 second to power on the module after power is supplied

3 Power Supply

N11 EVB supports the following two types of power supply:

- M5X0-PWR
- 5V/2A DC adapter

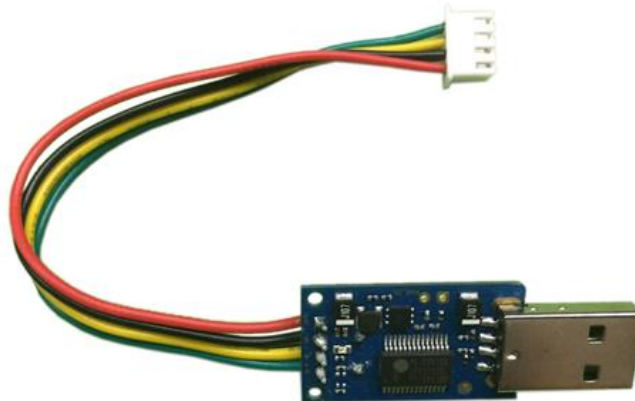
3.1 5V/2A Adapter

The EVB uses 5 V power supply. Plug the output end of the adapter to the DC connector on the EVB. Pull the power supply switch to the DC5V side and disconnect the jumper connection.

The following figure shows an 5V/2A adapter.



3.2 M5X0-PWR Board

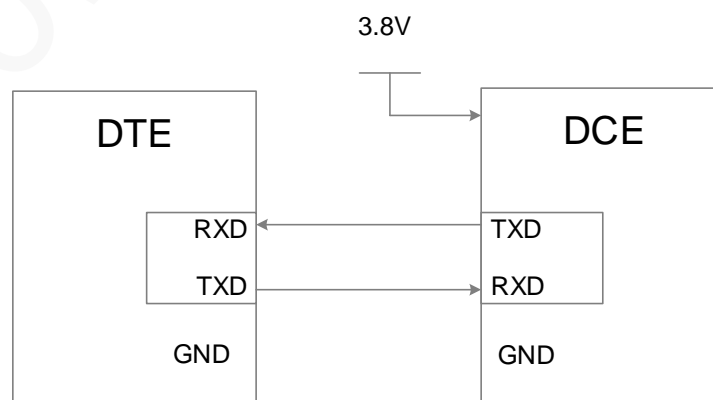


The above figure shows an M5X0-PWR board, which supplies 3.8V/0.6A power for the module and outputs 3.3 V CMOS level TXD and RXD for the communication between the computer and the module. It is connected to the N11 EVB through 4-pin cables, which have been soldered to the power board in a sequence of red, black, yellow, and green at one end and should be inserted into the plug of the EVB at the other end. There are two pins on the power board and they can control the power supply of the module.

Among the 4-pin cables:

- Green: TXD, output, 2.85 V CMOS level
- Yellow: RXD, input, CMOS level, 3.3 V maximum
- Black: Ground
- Red: VBAT, 3.6 V to 4.5 V, 3.8 V is recommended

To use the UART function, install the USB-to-UART driver (PL2303) first. If an MCU is used to control the module, connect the as shown in the following figure:



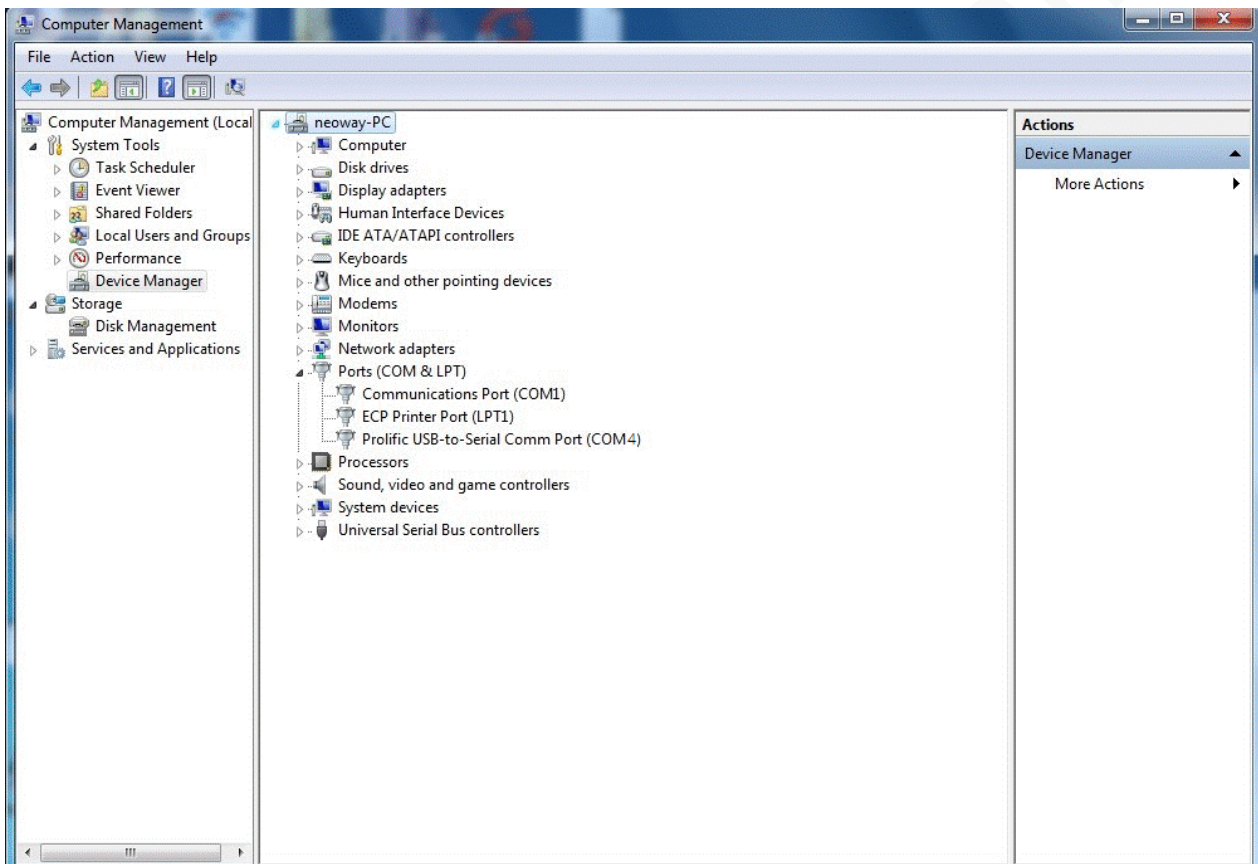
4 Commissioning

N11 is commissioned through UART. Follow the steps below:

Step 1: Install USB-to-Serial port driver (PL2303) and ensure that the computer displays the port.

Insert the M5X0-PWR board, and the computer displays **Profile USB-to-Serial Comm Port** under the **Port (COM and LPT1)** node in Device Manager.

Then you can start the commissioning.



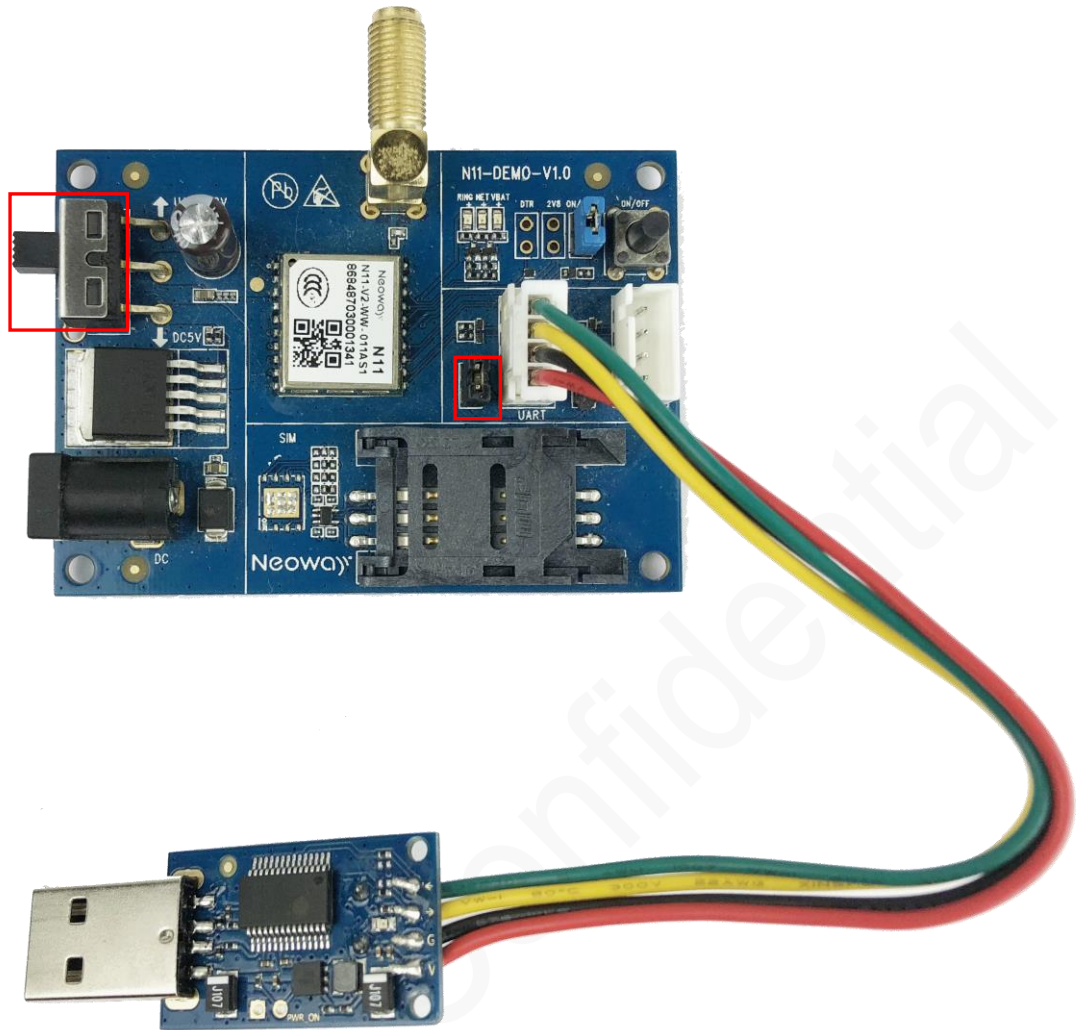
Step 2: Supply power to the module and start it.

- Through M5X0-PWR board

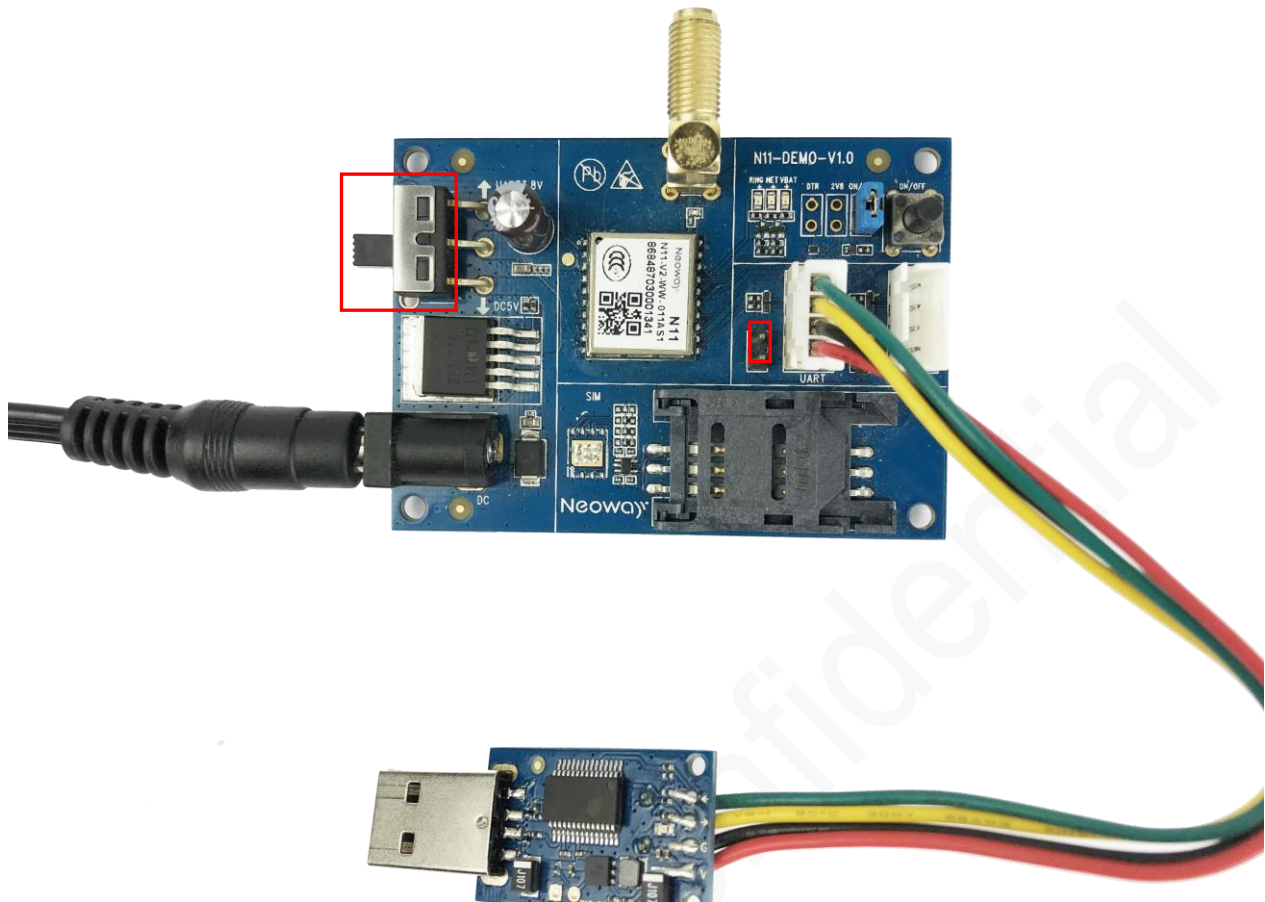
Connect the M5X0-PWR board to UART1 of the N11 EVB and your computer.

Push the power supply switch to the UART3.8V side, and put the jumper cap of UART1

Hold the ON/OFF button for 1.2 second. The module is started.



- Through 5V DC adapter
Connect the adapter to the EVB and plug it into a power board.
Push the switch to the DC5V side and remove the jumper cap of UART1.
Hold the ON/OFF button for 1.2 second. The module is started.



Step 3: Start the commissioning tool and perform commissioning.

