DNP-211-S Quick Start

v1.0, May 2024

Packing List

In addition to this guide, the package includes the following items:



DNP-211-S



Screw Driver



CA-0910



A microSD card and a micro SD/SD adapter

Technical Support

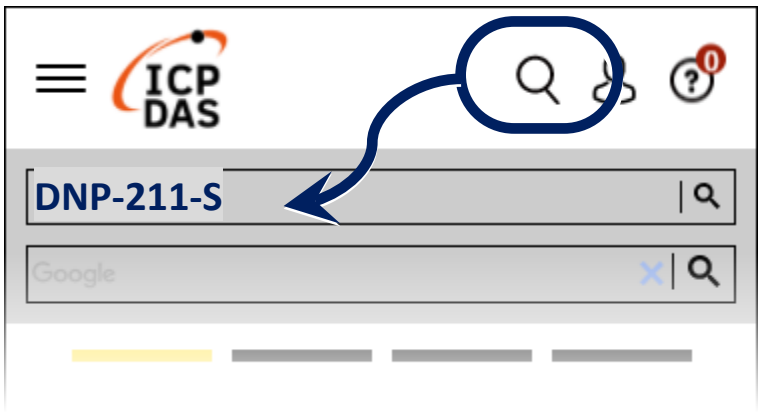
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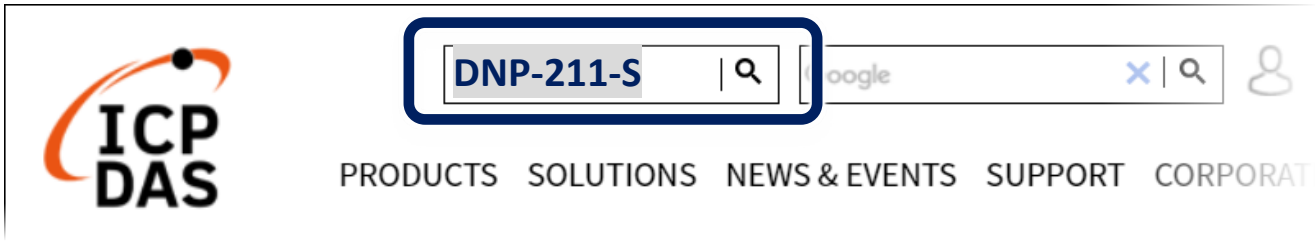
Resources

How to search for drivers, manuals and spec information on ICP DAS website.

- For Mobile Web



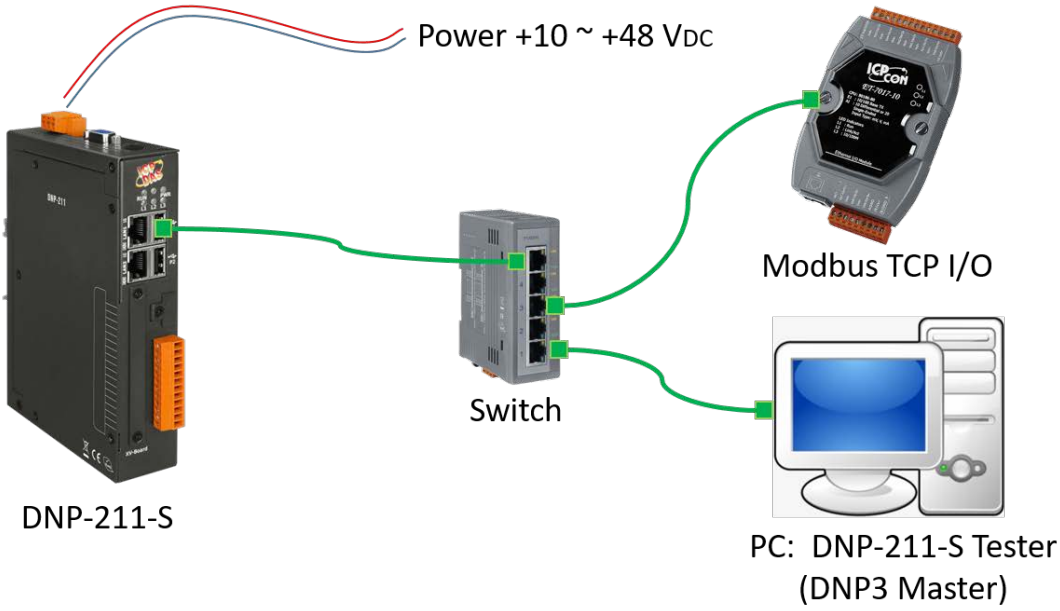
- For Desktop Web



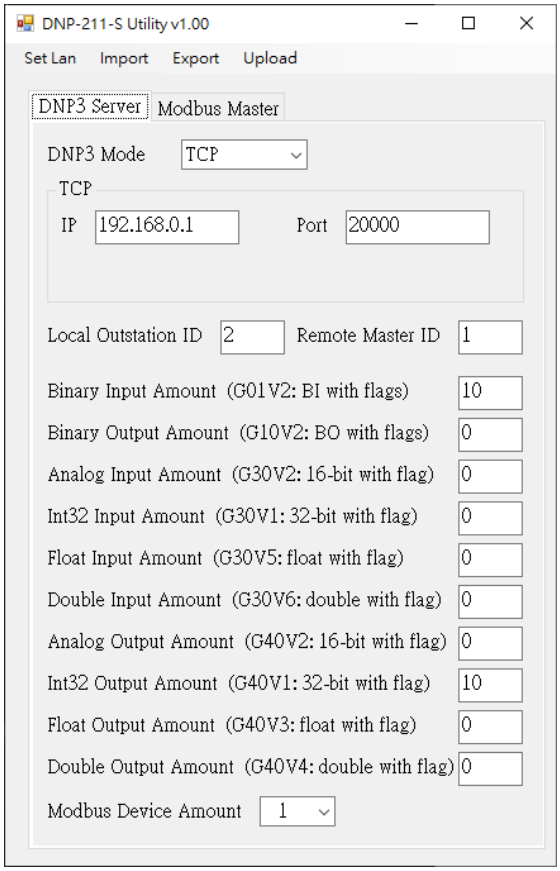
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1 Connect to PC, Internet, I/O and Power

Step1. Connect PC and Modbus TCP I/O to LAN1 of DNP-211-S with Ethernet switch.
Step2. Provide +10 ~ +48 V_{DC} power to DNP-211-S.



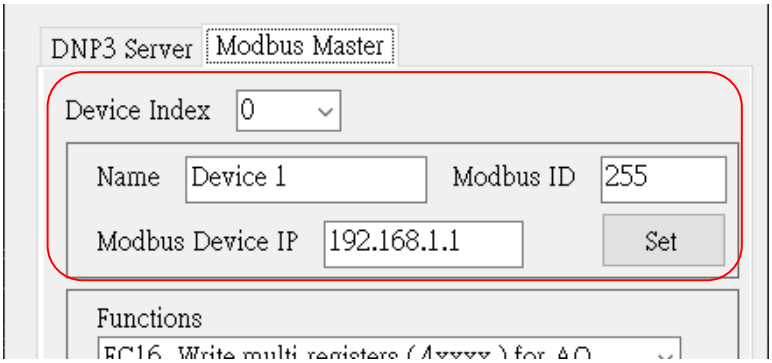
2 Execute DNP-211-S Utility to set DNP-211-S



Step1. Choose the DNP3 connection mode of the DNP-211-S. For TCP mode, users need to input IP/Port of the DNP-211-S to connect. For UDP mode, configure both DNP-211-S and Remote Host IP/Port. For Serial mode, specify the Com Port and baud rate.
Step2. Configure Outstation ID of the DNP-211-S and DNP3 Master ID.
Step3. Calculate the total number of individual I/O types that will be used and fill in the corresponding I/O fields.
Step4. Select the number of Modbus I/O devices to be connected, up to a maximum of 32.

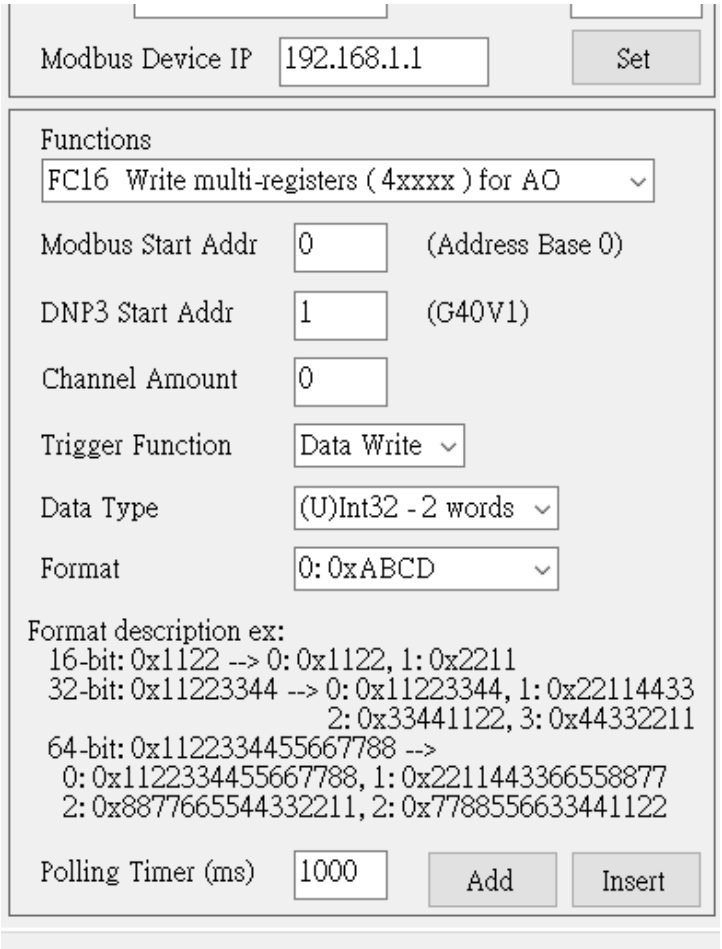
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3 Configure Modbus TCP I/O Slave



Step1. Select the slave index to set (0 ~ 31).
Step2. Enter the device name optionally, input the Modbus station number, and the connection IP.
Step3. Press the "Set" button to configure the I/O commands for the Modbus slave.

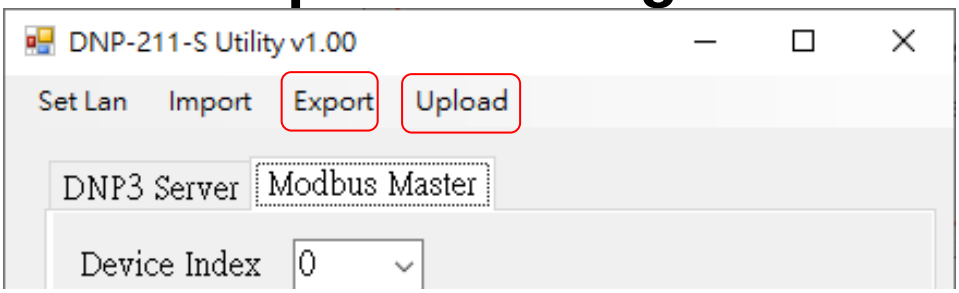
4 Modbus TCP Slave I/O Configure



Step1. Select function code.
Step2. Enter the starting address of the Modbus read/write, map it to the starting address of a specific DNP3 I/O, and specify the number of mapped data points (not bytes).
Step3. Choose the command trigger mode (skip this step for Read function codes).
Step4. For AI/AO function codes, you must select the data type and format. ◦
Step5. After entering the polling time for this command, press the "Add" button to add a new command column.

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5 Exports and Upload Configuration



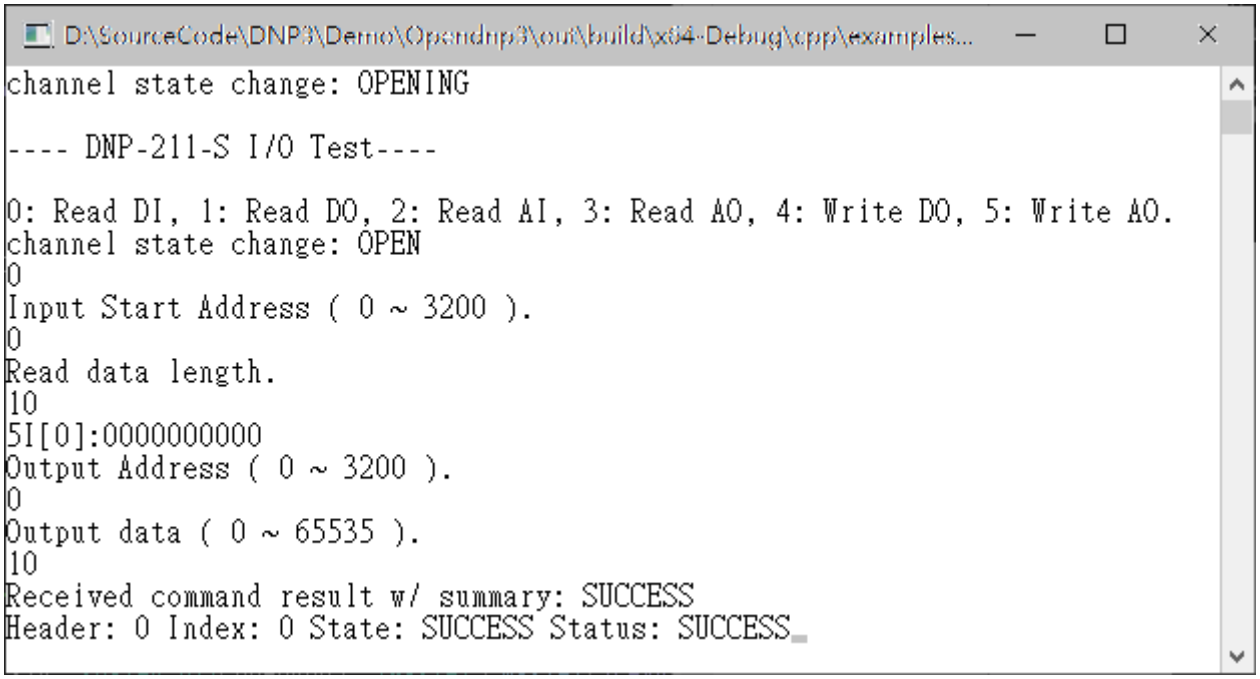
Step1. Repeat section 3 and 4 to complete all Modbus I/O settings, then press "Export" to export the configuration file.

Step2. Press the "Upload" button, enter the current IP address of the DNP-211-S (default is 192.168.0.1) and then click "Upload".

Step3. Select the exported configuration file for upload.

Step4. After the upload is completed, the DNP-211-S will automatically reboot to activate the new configuration file. Please do not turn off the power manually to avoid update failure.

6 Read and Test



Step 1. Execute the DNP-211-S Tester and enter the connection IP and Port of the DNP-211-S as prompted.

Step 2. Input 0 ~ 5 to execute Read/Write I/O functions, and follow the prompts to enter the Address and Data for Read/Write to test if the settings are correct.

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