

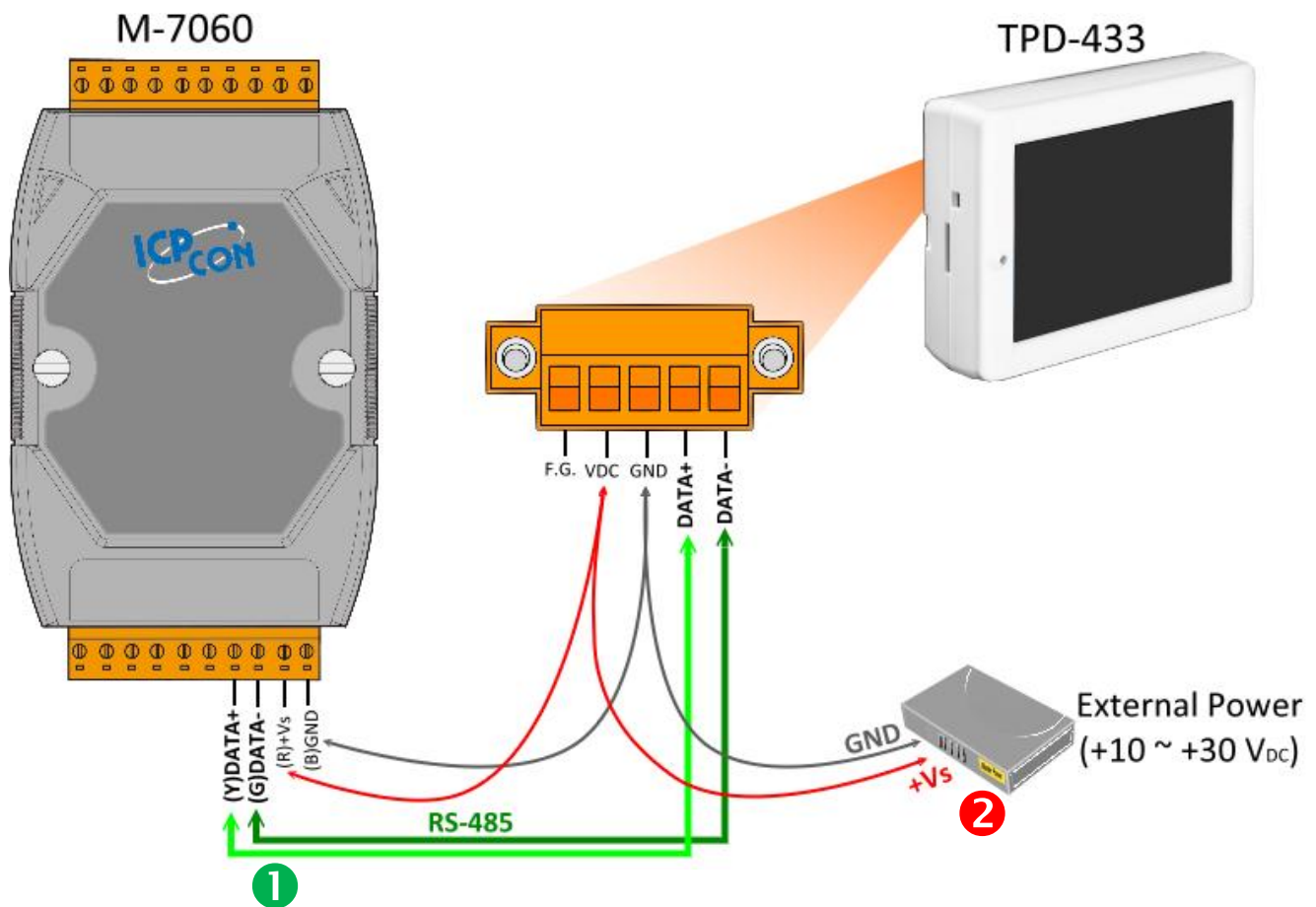
分類/Classification	<input type="checkbox"/> tDS	<input type="checkbox"/> tGW	<input type="checkbox"/> PETL/tET/tPET	<input type="checkbox"/> DS/PDS/PPDS	<input type="checkbox"/> tM-752N
	<input type="checkbox"/> I/O Card	<input type="checkbox"/> VXC Card	<input type="checkbox"/> VxComm	<input checked="" type="checkbox"/> Other (TouchPAD)	
作者/Author	Tammy	日期/Date	2015-06-26	編號/NO.	FAQ016

Q: How can the M-7060 be accessed using a TouchPAD?

A: Refer to the following for a detailed description of the configuration process:

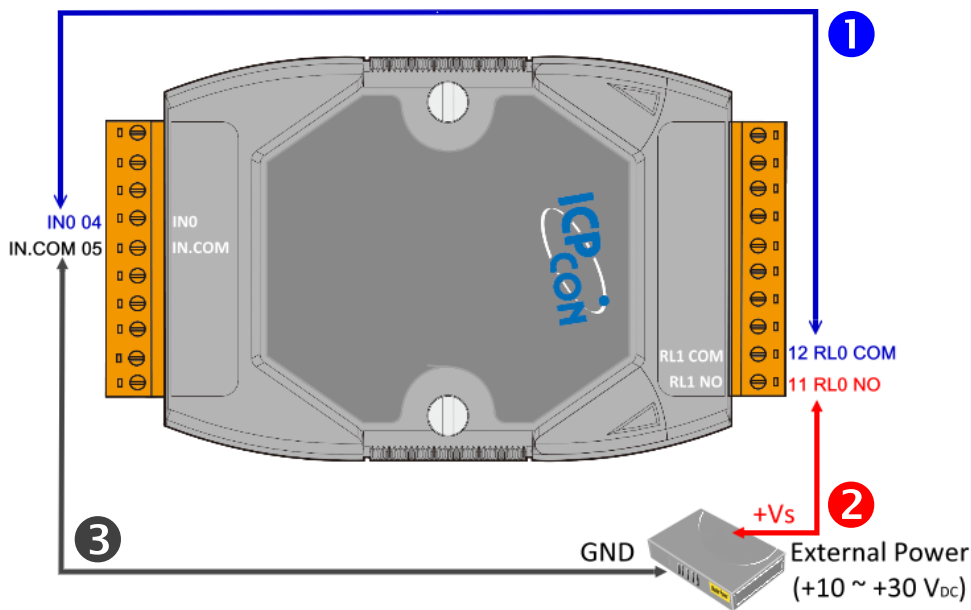
Step 1: Connect the M-7060 module to the TouchPAD model (e.g., TPD-433) on COM1 (RS-485 bus).

Step 2: Apply power to the M-7060 module and TouchPAD model (e.g., TPD-433). The valid power voltage range is from **+10 to +30 V_{DC}**.



Step 3: To perform a self-test, connect the DOO and DIO pins on the M-7060 module using the following method:

1. Connect the **RL0 COM** pin to the **INO** pin. (i.e., connect **Pin12** to **Pin04**).
2. Connect the **+10 V External Power** supply to the **RL0 NO** pin. (i.e., connect the **External + 10 V** to **Pin11**)
3. Connect the **GND pin on the External Power** supply to the **IN.COM** pin. (i.e., connect the **External GND** to **Pin05**)



Step 4: Install the **HMIWorks** driver, which can be obtained from either the companion CD-ROM or from the ICPDAS website, as indicated below:

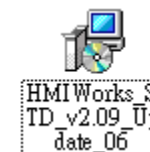


CD:\NAPDOS\TouchPAD\Setup\



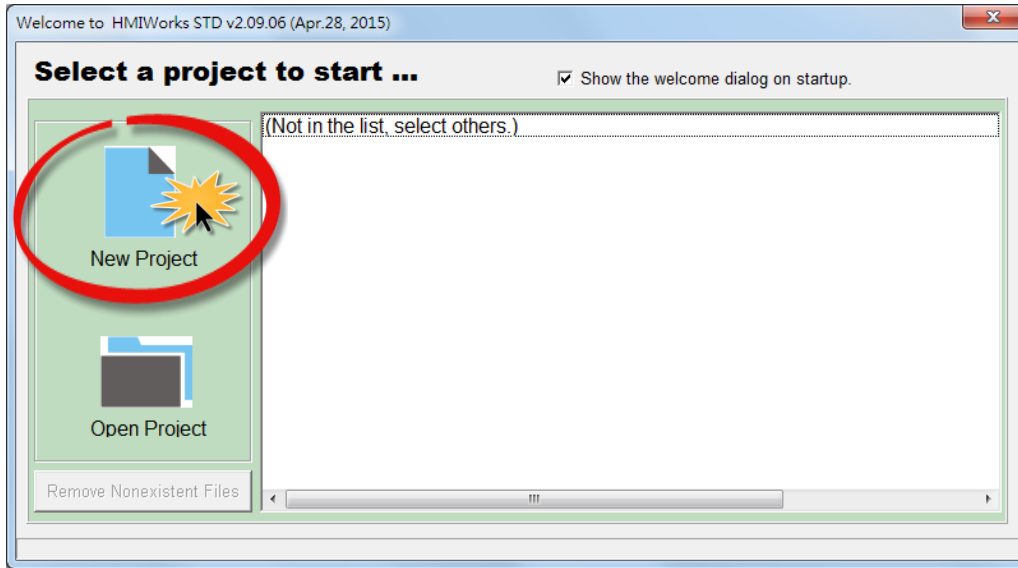
<http://ftp.icpdas.com/pub/cd/touchpad/setup/>

1. Double-click the **“HMIWorks_STD_vxxx_setup.exe”** file icon to execute the driver installation program.
2. Once the driver installation is complete, double-click the **“HMIWorks_STD_vxxx_Update_xx.exe”** file icon to execute the driver installation update program.



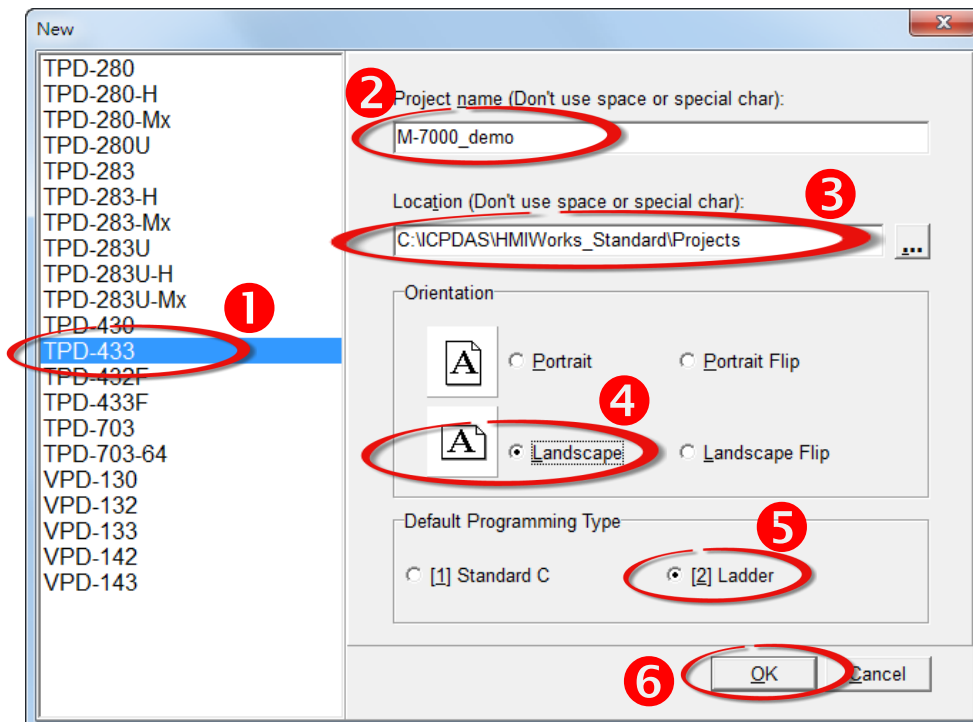
For more detailed information related to the driver installation, refer to Chapter 2 “Software Installation” in the [TouchPAD Getting Started](#) document.

Step 5: Open the HMIWorks software, click the **“New Project”** icon to create a new project.

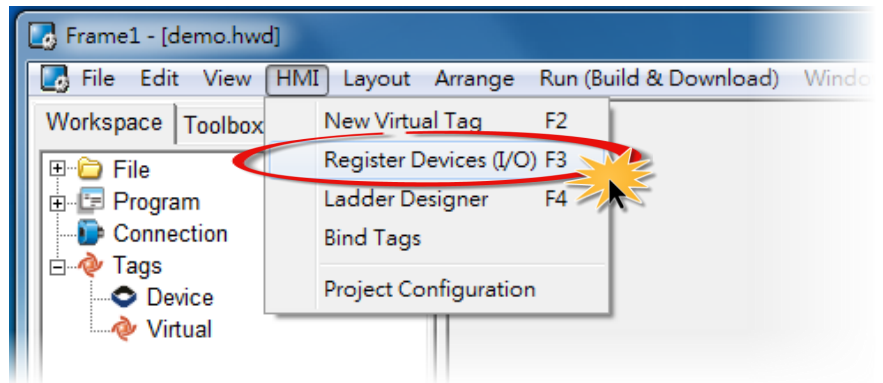


Step 6: In the **“New”** dialog box, configure the parameters for the new project as follows:

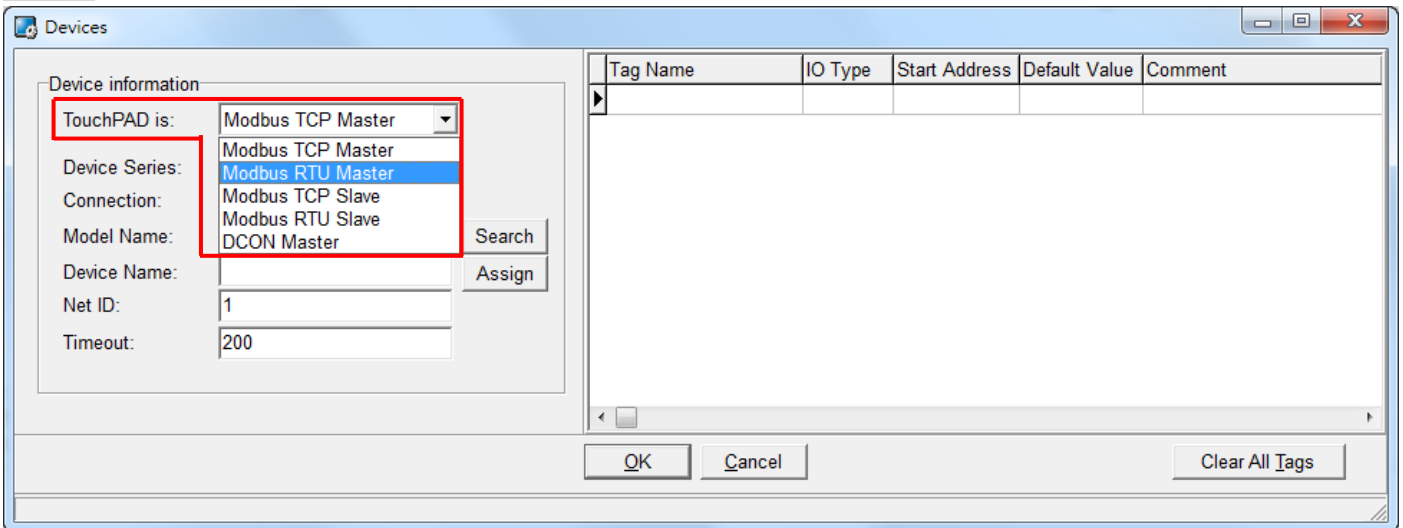
1. Click the name of the TouchPAD model to select it, TPD-433 in this case.
2. Enter a name for the project.
3. Select the location where the project should be saved.
4. Select the orientation for the display.
5. Select the Default Programming Type.
6. Click the **“OK”** button to save the configuration and close the dialog box.



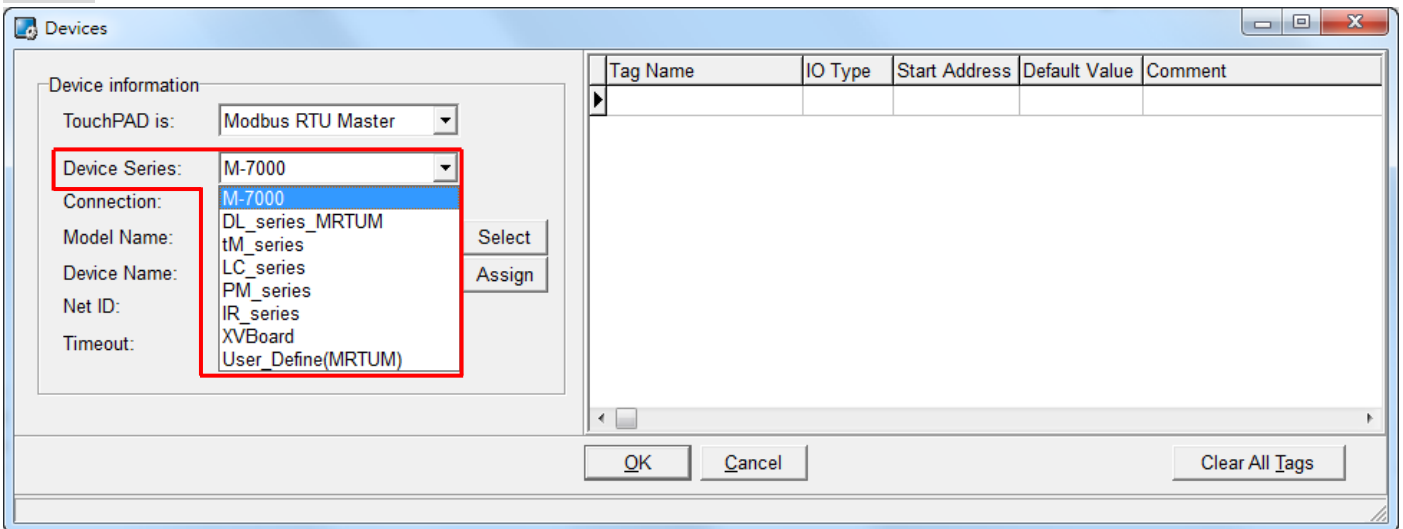
Step 7: Click the “Register Devices (I/O)” option from the “HMI” menu to open the “Devices” dialog box, or press **F3**.



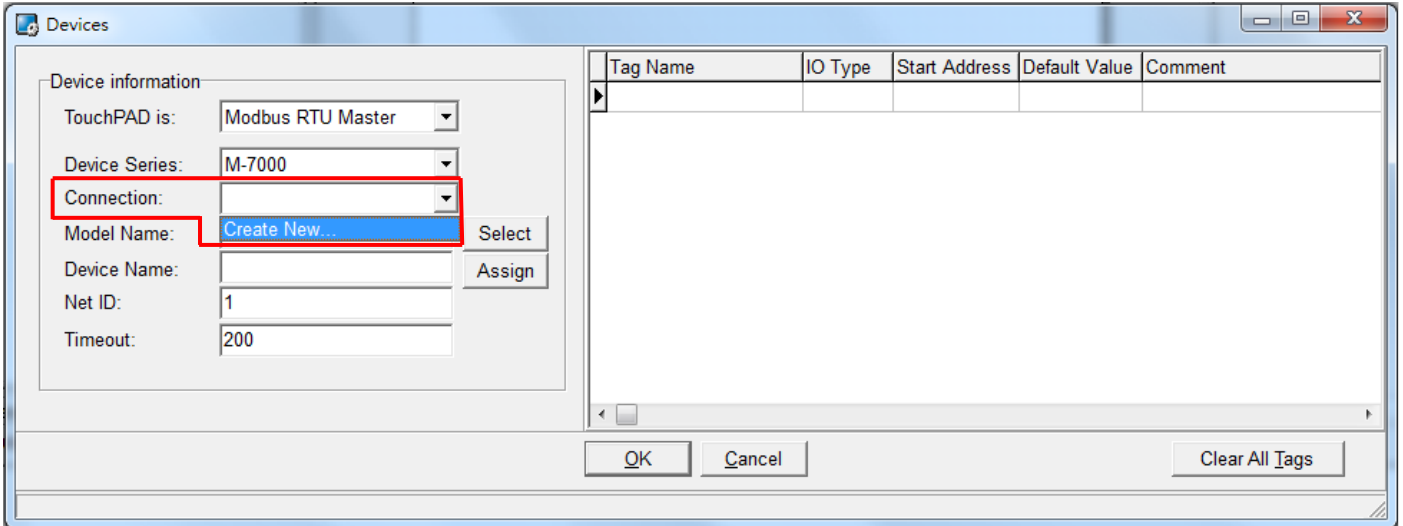
Step 8: Select “Modbus RTU Master” from the “TouchPAD is” drop down menu.



Step 9: Select “M-7000” from the “Device Series” drop down menu.

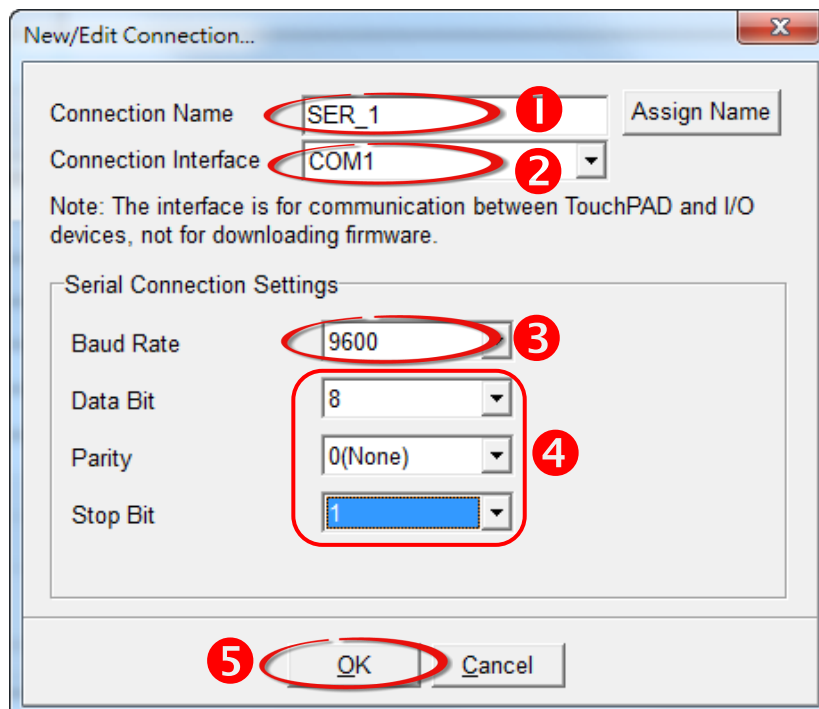


Step 10: Select “Create New...” from the “Connection” drop down menu to open the “New/Edit Connection...” dialog box.



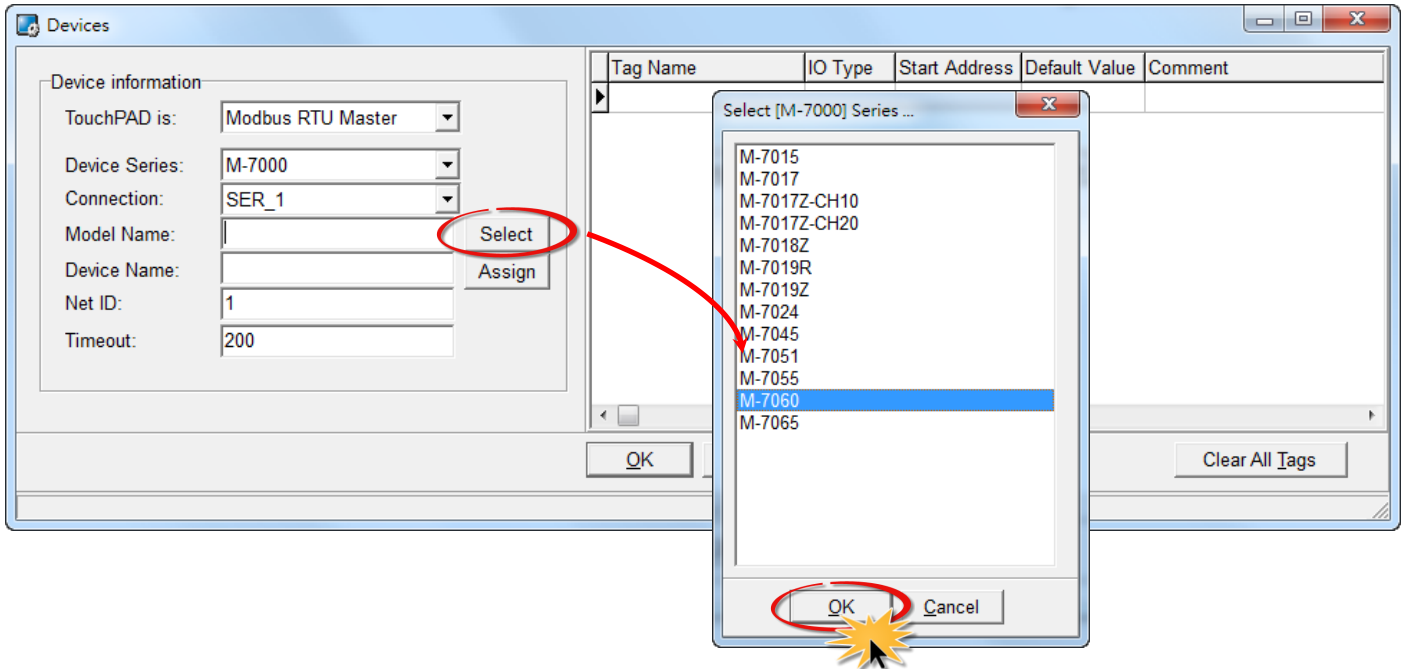
Step 11: In the “New/Edit Connection...” dialog box, configure the connection information of the M-7060 module in the following manner:

1. Enter a name for the connection (e.g., SER_1) in the “Connection Name” field.
2. Select “COM1” from the “Connection Interface” drop down menu.
3. Select the **Baud Rate of the M-7060** module (e.g., 9600) in the “Baud Rate” drop down menu.
4. Select the **Data Format of the M-7060** module (e.g., 8, None, 1) in the “Data Bit”, “Parity” and “Stop Bit” drop down menu.
5. Click the “OK” button to save the configuration and close the dialog box.

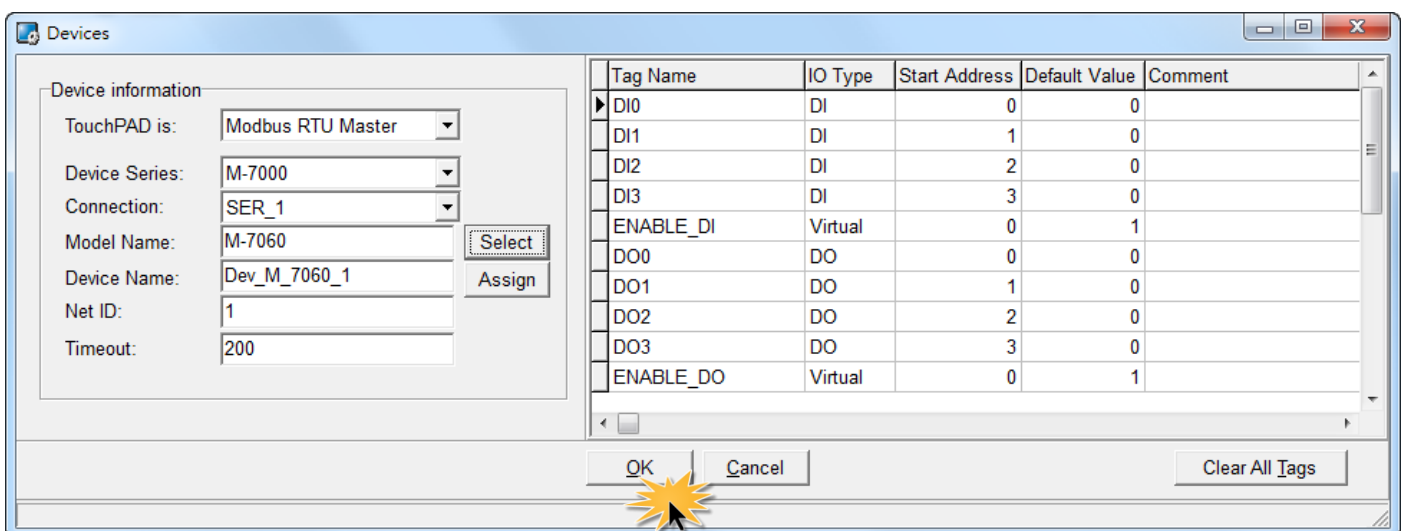


Step 12: Click the “Select” button to open the “Select [M-7000] Series...” dialog box.

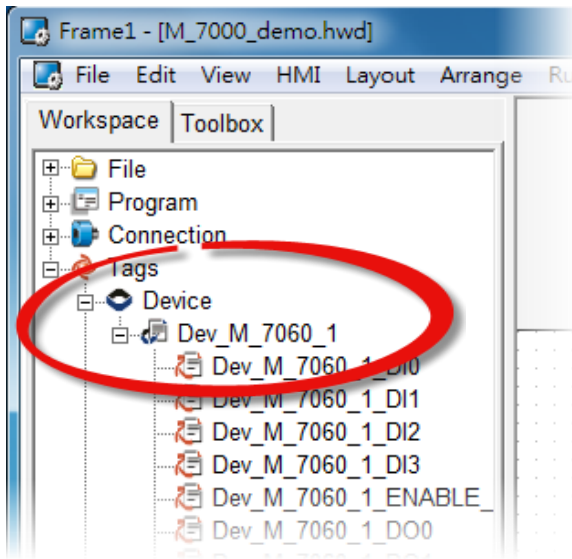
Step 13: In the “Select [M-7000] Series...” dialog box, select the M-7060 module and then click the “OK” button.



Step 14: Verify that the information for M-7060 module is correct (e.g., the Device Name, Net ID, Tag Name, IO Type, Start Address and Default Value, etc.) and then click the “OK” button to save the configuration and close the “Devices” dialog box.

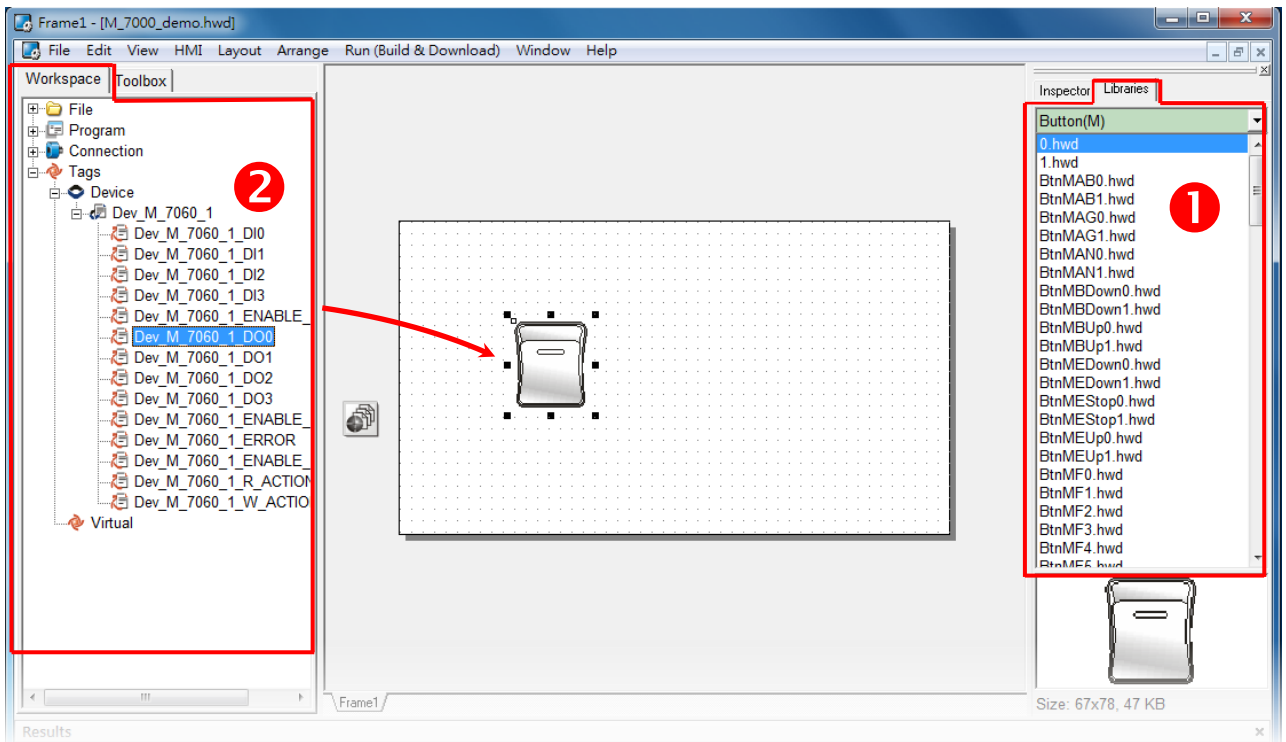


Step 15: The creation of the “Dev_M_7060_1” device is now complete.

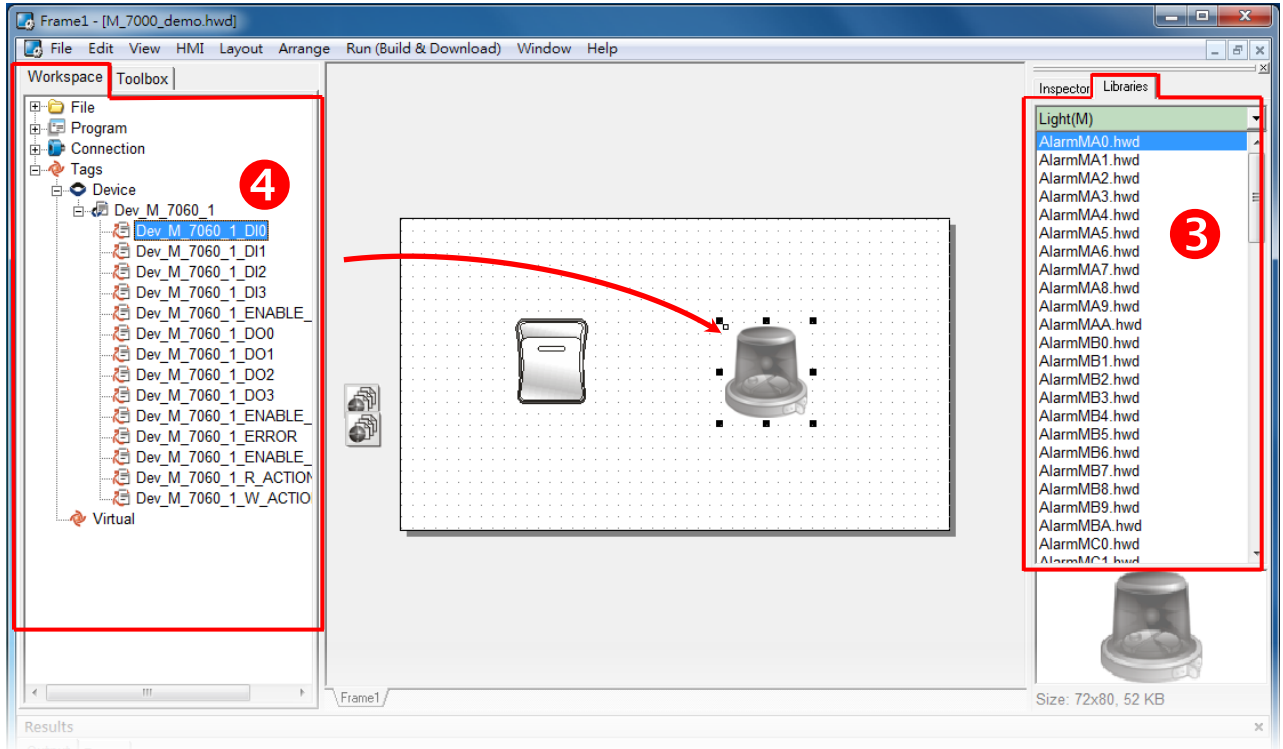


Step 16: Use the following procedure to create a DIO sample program:

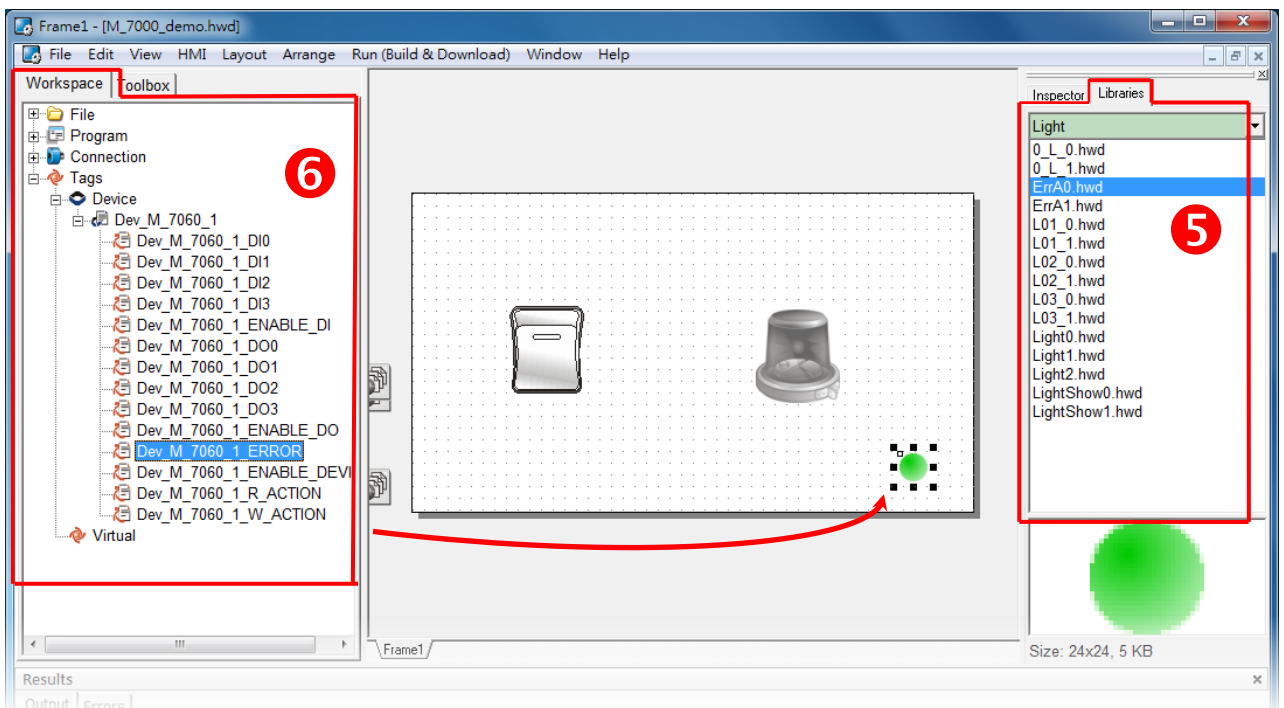
1. Select a “Button” object from the “Libraries” pane to represent the DO0 tag.
2. Drag the "Dev_M_7060_1_DO0" tag (DO channel 0) from the "Workspace" pane to the desired position on the design frame.



3. Select a "Light" object from the "Libraries" pane to represent the DIO tag.
4. Drag the "Dev_M_7060_1_DIO" (DI channel 0) tag from the "Workspace" pane to the desired position on the design frame.



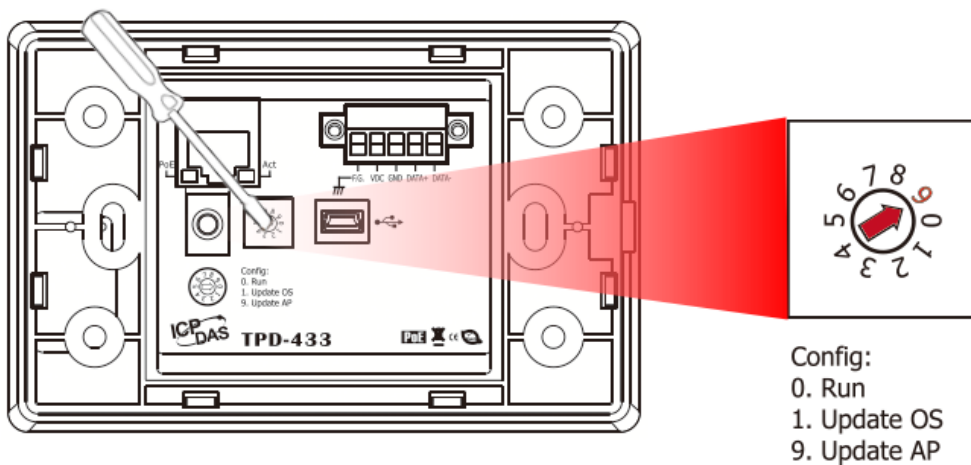
5. Select a "Light" object from the "Libraries" pane to represent the ERROR tag.
6. Drag the "Dev_M_7060_1_ERROR" tag from the "Workspace" pane to the desired position on the design frame.



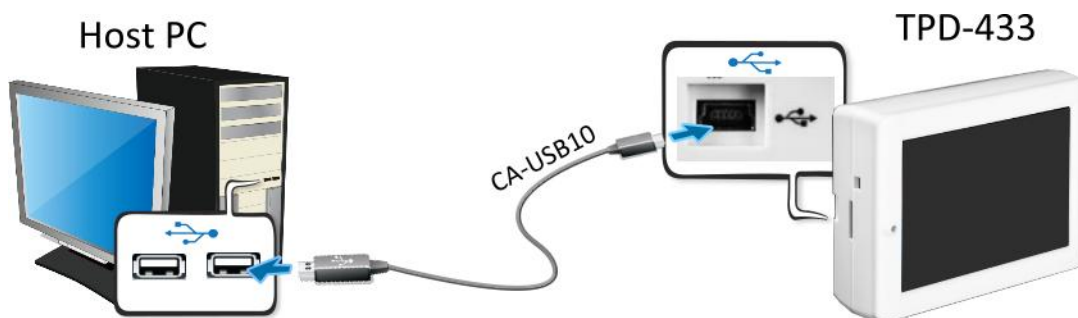
The creation of the DIO sample program is now complete.

Step 17: Once the DIO sample program is complete, it can be uploaded to the TPD-433 module via USB. The detailed configuration and wiring information is as follows:

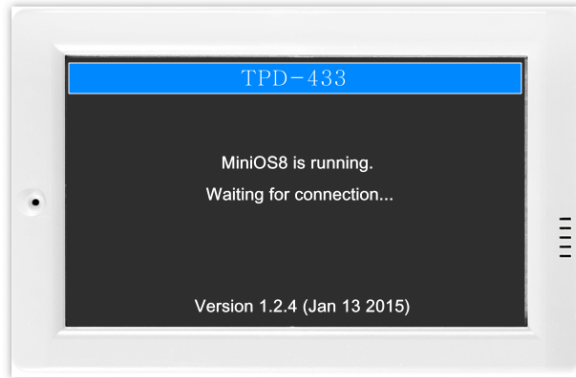
1. **Power off the TPD-433 module** and use a flat-head screwdriver to set the **Rotary Switch** on the TPD-433 module to **“Update AP” mode (position 9)**. Note that the default configuration is **“Run” mode (position 0)**.



2. Connect the **TPD-433 module** to the **Host PC** using a **CA-USB10 cable**, and then **Power-on and reboot the TPD-433 module**.

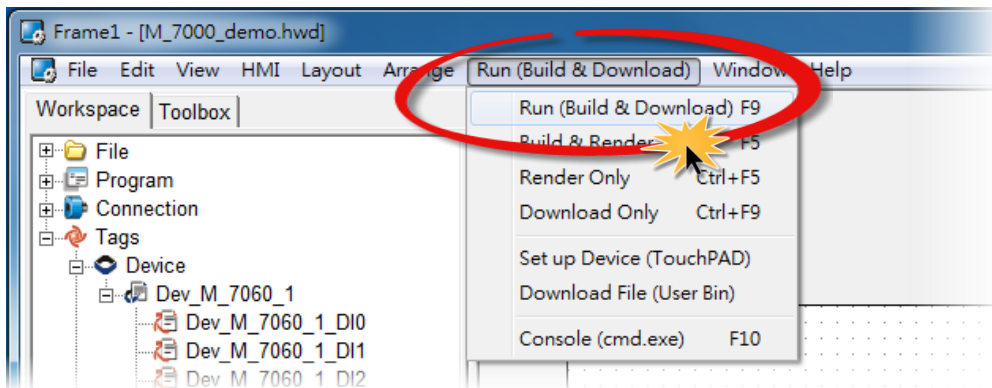


- The message: **“MiniOS8 is running. Waiting for connection...”** will be displayed on the TPD-433 module.

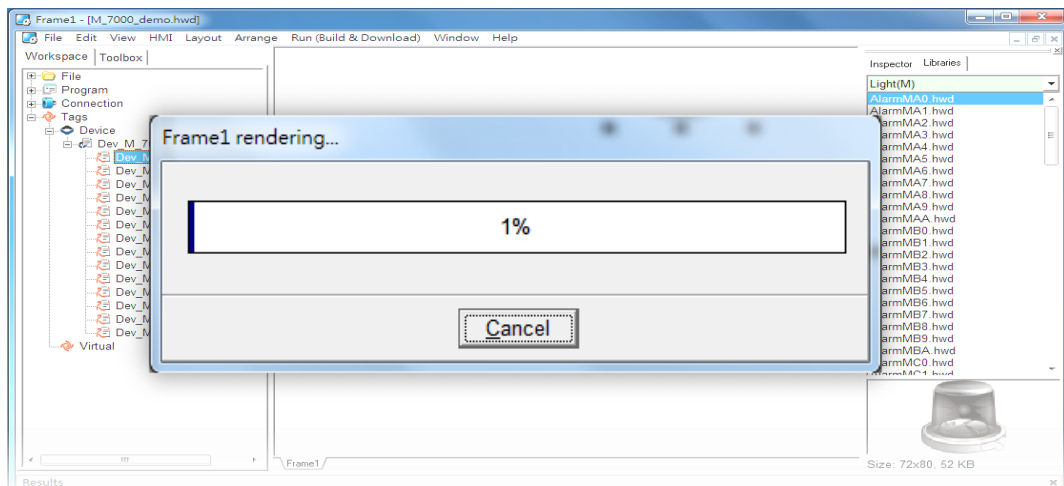


Step 18: The DIO sample program can now be uploaded to the TPD-433 module. Follow the procedure described below:

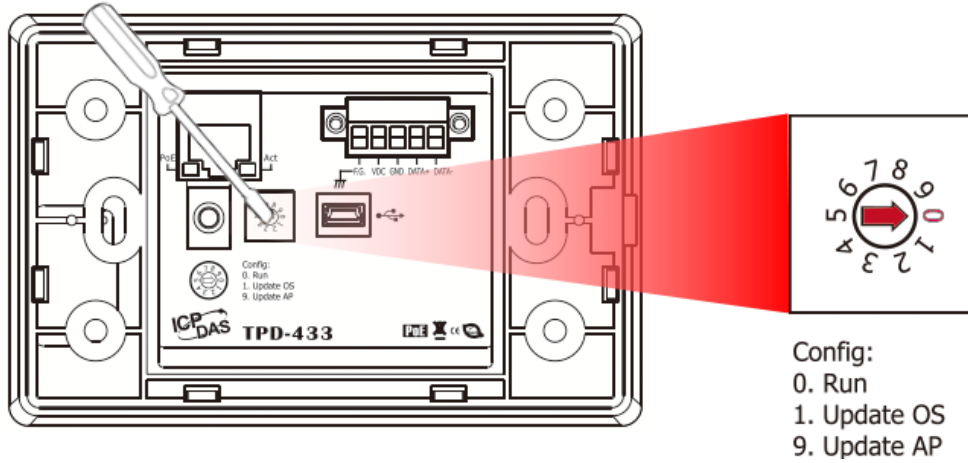
- In the HMIWorks application, click the **“Run (Build & Download) F9”** item from the **“Run (Build & Download)”** menu, or press **F9**.



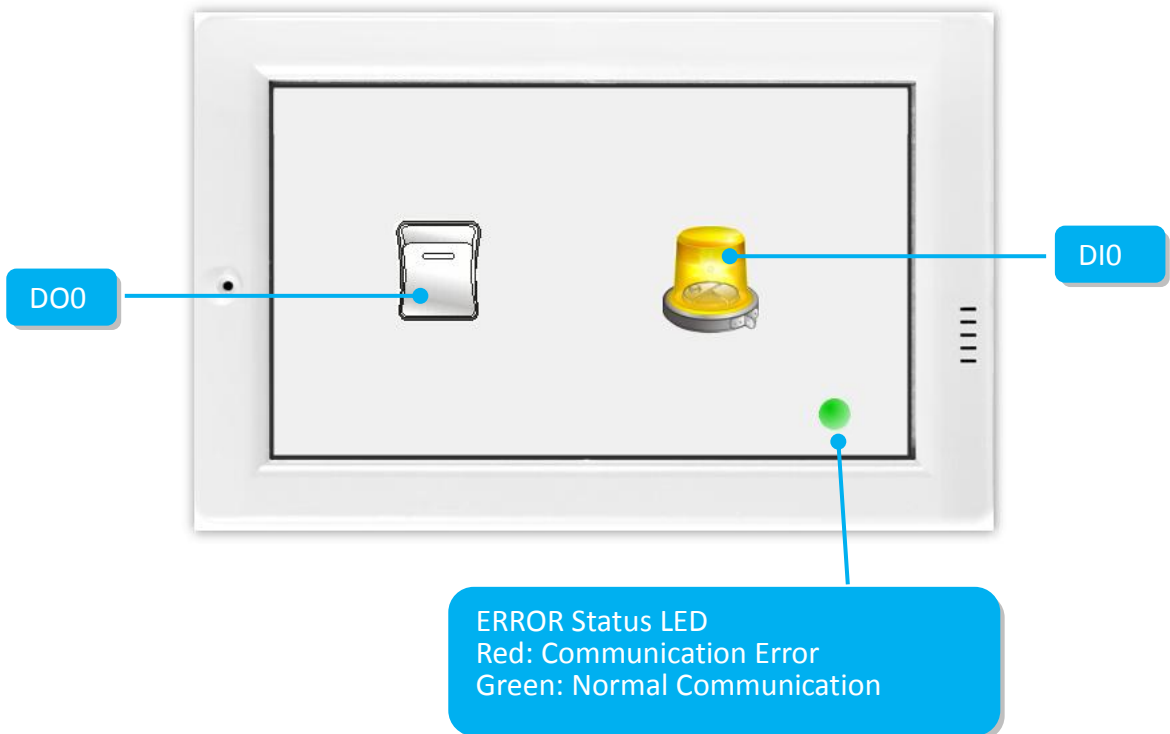
- The **“Frame1 rendering...”** dialog will be displayed showing the progress of the update.



3. Once the upload is complete (i.e., when the progress indicator reaches 100%), **power off the TPD-433 module** and set the **Rotary Switch to “Run” mode (position 0)**.

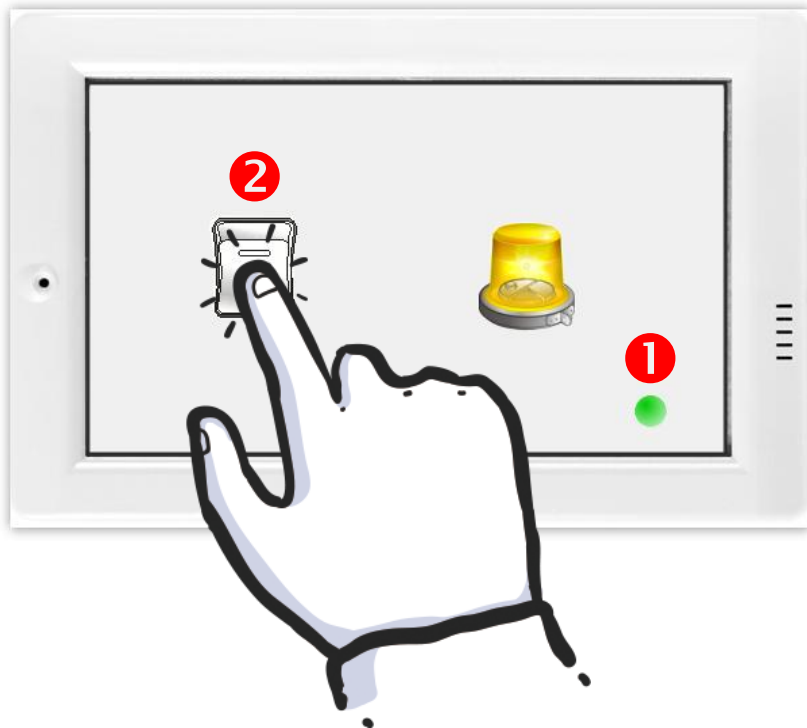


4. **Power-on and reboot** the TPD-433 module so that the module is operating in **“Run” mode**. The TPD-433 module will then execute the DIO sample program.



Step 19: Verify the results of the DIO functions test in the following manner.

1. Check that the ERROR LED on the M-7060 module is in the normal communication state (green).
2. Tap the DO0 icon on the TPD-433 module.



3. Check that the DIO icon has changed between states (e.g., yellow or grey).



-Complete-