I-7580 Quick Start

This Quick Start will provide information needed to get started with I-7580. Please also consult the User Manual for detailed information on the setup and use of I-7580.

What's In the Box?

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



Technical Support

• I-7580 User Manual

CD: \fieldbus_cd\profinet\converter\i-7580\manual\ ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/profinet/converter/i-7580/manual/

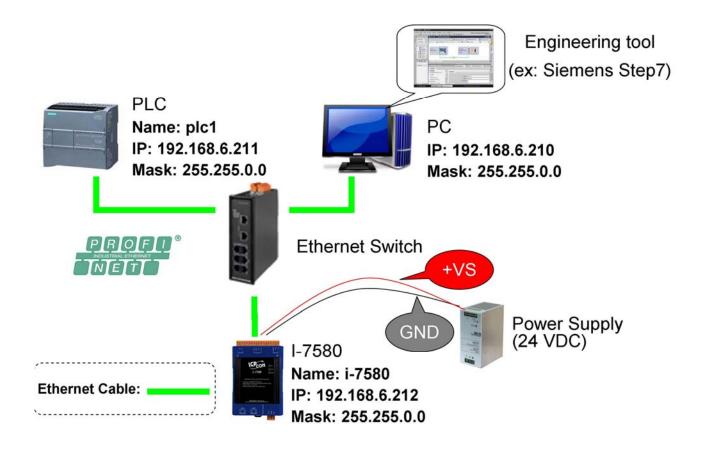
PROFINET Website

http://www.icpdas.com/products/Industrial/profibus/profinet_intro.htm

Let's Start

In the following examples the S7-1200 PLC from Siemens is used. The configuration and communication is done by the program "Step 7 V11 (TIA PORTAL)" provided by Siemens. We will establish a PROFINET IO network.

1 Connecting to Network, PC, PLC and Power



2

Network Configuration

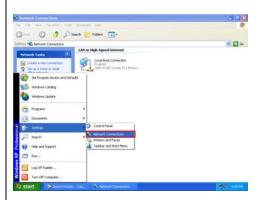
In this example, please follow the below configuration to configure the network.

 $PC \Rightarrow PLC \Rightarrow I-7580 \Rightarrow$

IP: 192.168.6.210 Device name: plc1 Device name: i-7580 Mask: 255.255.0.0 IP: 192.168.6.211 IP: 192.168.6.212 Mask: 255.255.0.0 Mask: 255.255.0.0

Step 1: Set PC's IP & Mask (IP=192.168.6.210, Mask=255.255.0.0)

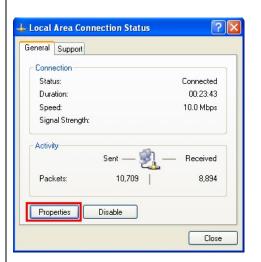
1. Click "start->Settings->Network Connections"



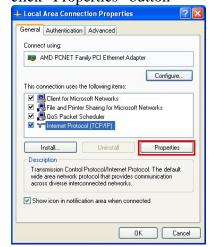
2. Double click "Local Area Connection" icon



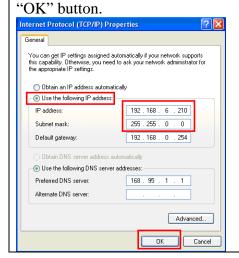
3. Click "Properties" button



4. Select "Internet Protocol(TCP/IP)" and click "Properties" button



5. Set "Internet Protocol Properties" and then click



3 GSD Import

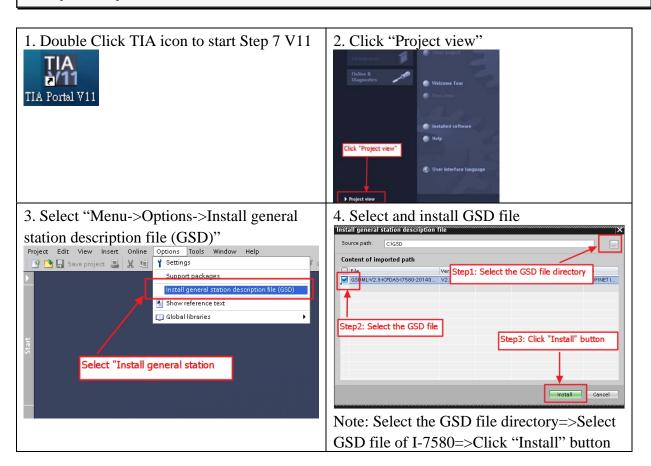
In this example, please follow the step to import GSD file.

Step 1: Get GSD file

The GSD file can be obtained from companion CD or our FTP site:

 $CD: $$ CD: \left| io\I-7580 \right| $$ ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/profinet/converter/i-7580/gsd/ $$ ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/pub/cd/fieldbus_cd/pub/cd/fieldbus_cd/pub/cd/fieldbus_cd/pub/cd/fieldbus_cd/pub/cd/fieldbus_cd/pub/cd/fieldbus_cd/pub/cd/fie$

Step 2: Import GSD file





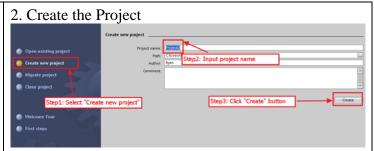
Project Setup

In this example, please follow the step to setup project.

Step 1: Create the project

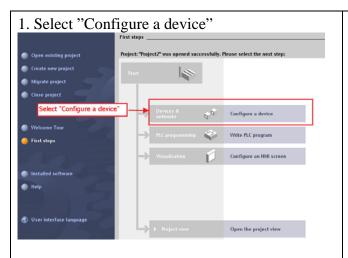
1. Double Click TIA icon to start Step 7 V11





Note: Select "Create new project" => Click "Create" button

Step 2: Project configuration

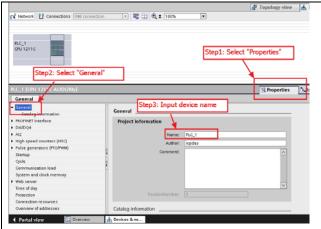


3. Set the device name of PLC to "plc1"

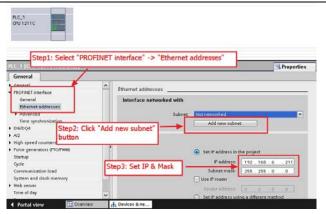


Note: Select "Add new device" => Select your PLC module => Click "Add" button

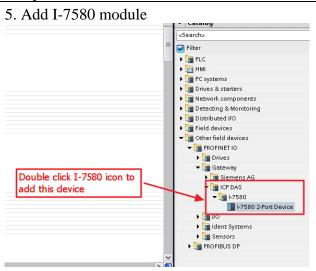
4. Set the IP and mask of PLC and add a new subnet



Note: Select "Properties" windows => Select "General" => Input device name = plc1 at "Project Information"



Note: Select "PROFINET Interface" => Click
"Add new subnet" button at "Ethernet addresses"
=> Input IP=192.168.6.211, mask=255.255.0.0

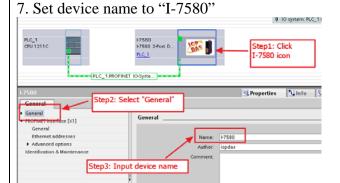


Note: Add I-7580 device by Hardware catalog (Other field devices->PROFINET IO->Gateway->ICP DAS->I-7580)





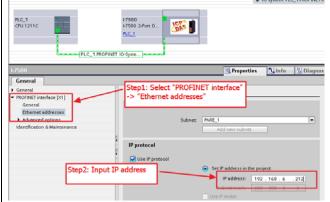
Note: Click "Not assigned" text => Select plc1.PROFINET Interface_1



Note: Select I-7580 icon => Select "Properties" => Select "General" => Input name = I-7580 at "Project Information"

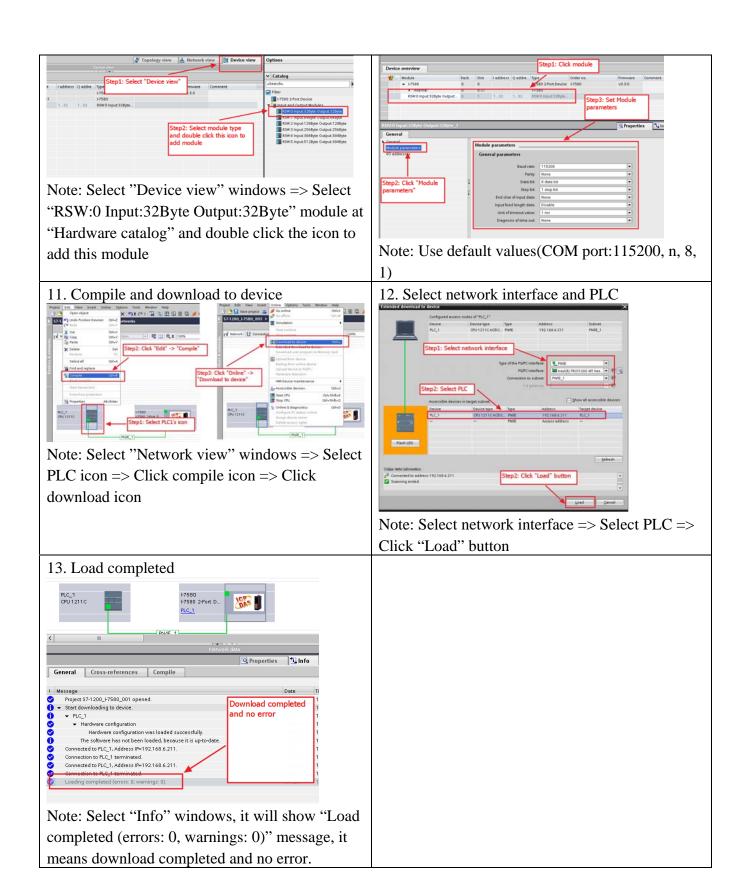
9. Select module type of I-7580 module





Note: Select "PROFINET Interface [X1]" => Input IP=192.168.6.212 at "IP addresses"

10. Set module parameters of I-7580



At this time, the AP LED should turn on, BOOT LED and ERR LED should turn off, it means the connection between PLC and I-7580 module is established.



Communication test

we use "Send232" to test PROFINET communication and serial communication. This utility simulates a serial device and can be obtained from our FTP site. ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/7188e/tcp/pcdiag/source/send232.vb6_2.0.1

