



# Quick Start Guide for I-7188EX

September 2012, Version 1.0.1

## Congratulations!

Congratulations on purchasing I-7188EX - the most popular automation solution for remote monitoring and control application. This Quick Start Guide will provide information needed to get started. Please also consult the User Manual for detailed information on the setup and use of I-7188EX. This guide covers the following models:

I-7188EX, I-7188EA

## What's in the Box?

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



I-7188EX/I-7188EA



Software Utility CD



RS-232 Cable  
(CA-0910)



Screw Driver  
(1C016)

## Technical Support

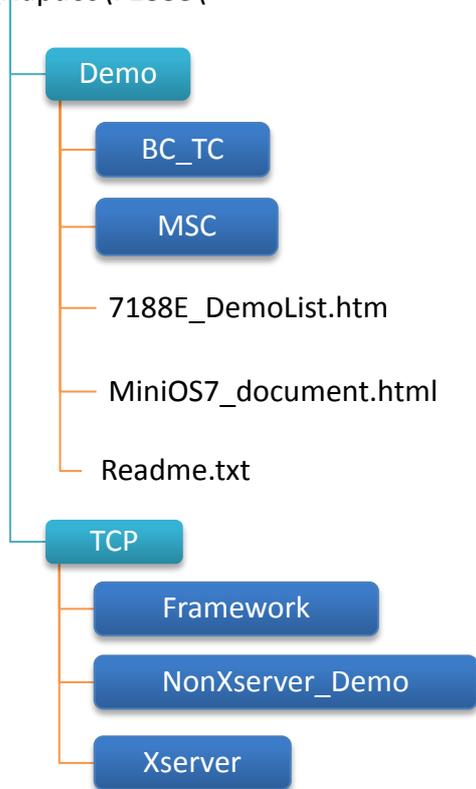
- **I-7188EX Reference Document**  
CD:\NAPDOS\7188e\Document  
<ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/7188e/document/>
- **I-7188EX Website**  
[http://www.icpdas.com/products/PAC/i-7188\\_7186/i-7188ex.htm](http://www.icpdas.com/products/PAC/i-7188_7186/i-7188ex.htm)

# 1 Installing the SDKs

ICP DAS provides easy-to-use SDKs (Xserver, Modbus APIs) and a variety of demo programs to help you quickly develop your own applications. These SDKs and demo programs can be obtained from the CD that was provided with the package or by downloading the latest version from ICP DAS web site.

<http://ftp.icpdas.com/pub/cd/8000cd/napdos/7188e/>

CD: \Napdos\7188e\



## 2 Installing the MiniOS7 Utility

MiniOS7 Utility is a suite of tool for managing MiniOS7 devices (I-7188E, I-8000,  $\mu$ PAC-5000, iPAC-8000,  $\mu$ PAC-7186,. etc.). It's comprised of three components – Module configuration, file manager and OS upgrade.



The MiniOS7 Utility can be obtained from companion CD or our FTP site:

CD:\Napdos\minios7\utility\minios7\_utility\

[ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minios7\\_utility/](ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minios7_utility/)

# 3

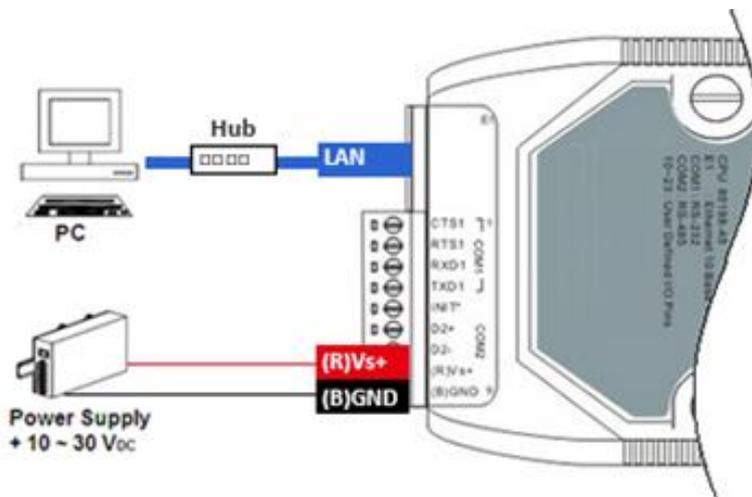
## Starting the I-7188EX up and Wiring it to PC

**Step 1: Connect to a +10 ~ +30 V<sub>DC</sub> power supply**

- i. Connect the +Vs of the I-7188EX to the positive of the power supply.
- ii. Connect the GND of the I-7188EX to the negative of the power supply.

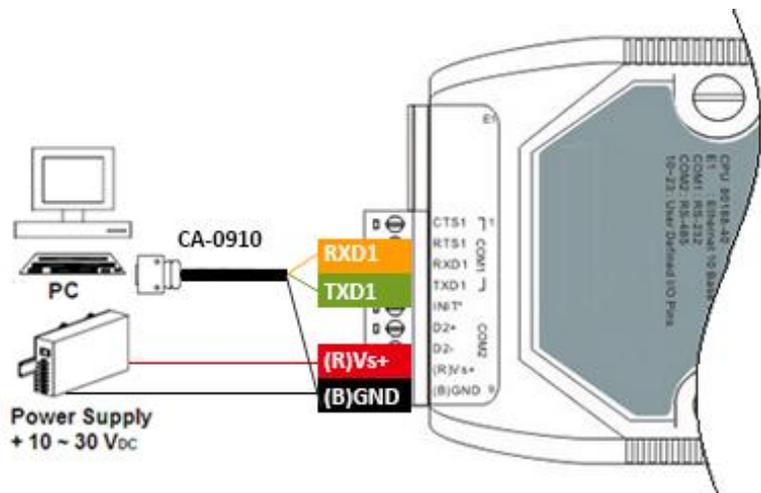
**Step 2: Connect to PC**

Ethernet port of the I-7188EX should be connected to a PC via a hub by using an Ethernet cable.



**Here is another way to connect the I-7188EX to a PC.**

RXD1, TXD1 and GND of the I-7188EX should be connected to a PC by using the RS-232 cable (CA-0910).



# 4 Using MiniOS7 Utility to Assign an IP Address

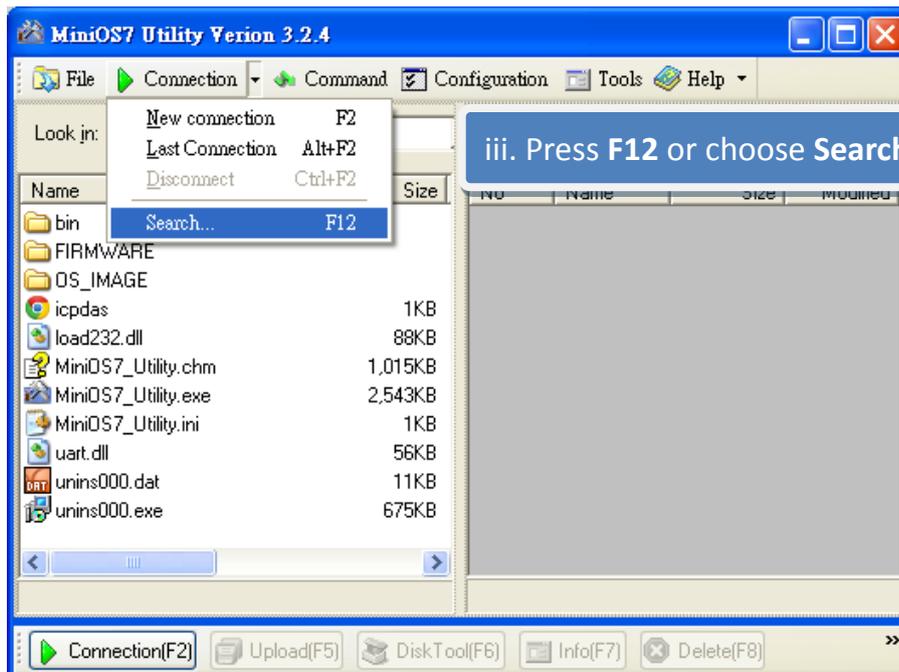
**MiniOS7 Utility** can be used to configure the IP address. Before starting the configuration process, make sure that the **I-7188EX** are used to connect to your network. The default IP addresses are as follows:

Item	Default
IP Address	192.168.255.1
Subnet Mask	255.255.0.0
Gateway	192.168.0.1

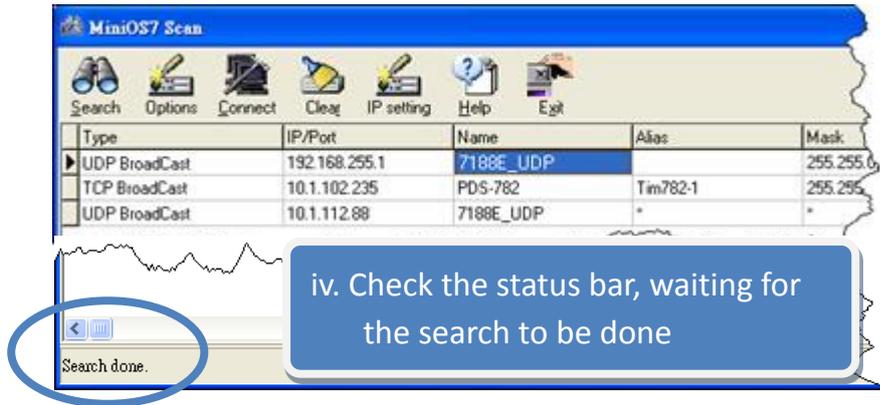
## Step 1: Run the MiniOS7 Utility, and then search the I-7188EX



- i. Make sure that the I-7188EX is running in init mode
- ii. Double-click the **MiniOS7 Utility** shortcut on your desktop.
- iii. Press **F12** or choose **Search** from the **Connection** menu.

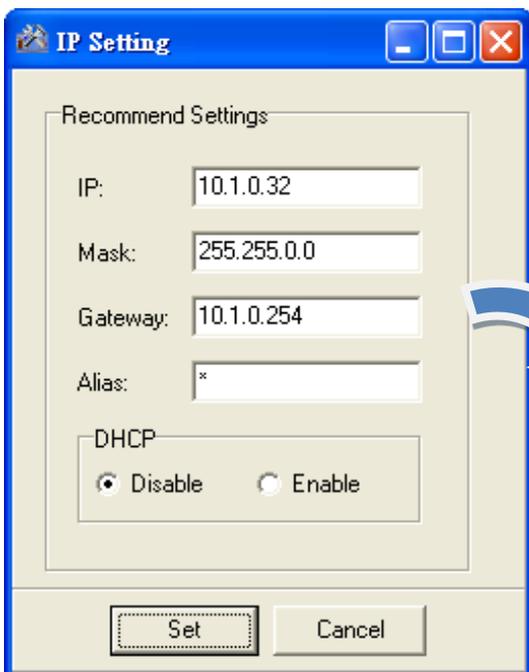
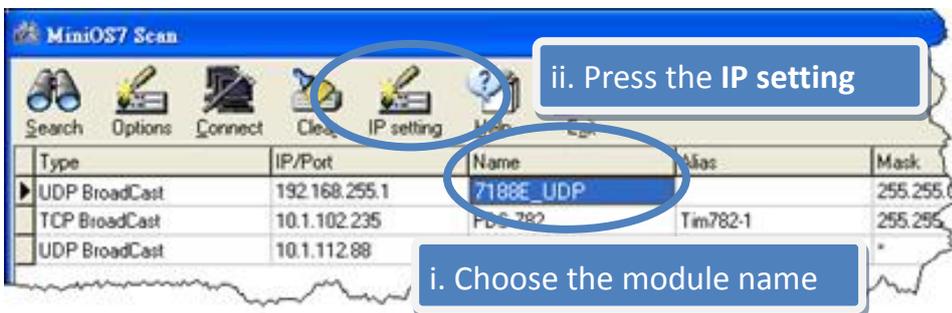


iv. Check the status bar of the **MiniOS7 Scan** dialog, waiting for the search to be done.

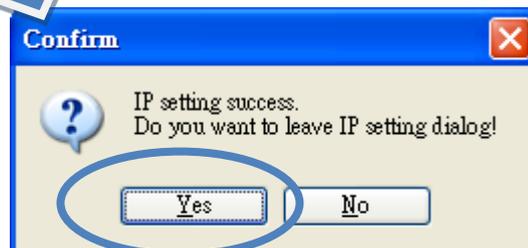


## Step 2: Configure the IP Address

- i. Choose the module name from the column.
- ii. Press the **IP setting** from the toolbar, and then assign the new IP address



- iii. Configure the IP setting
- iv. Press the **Yes** button



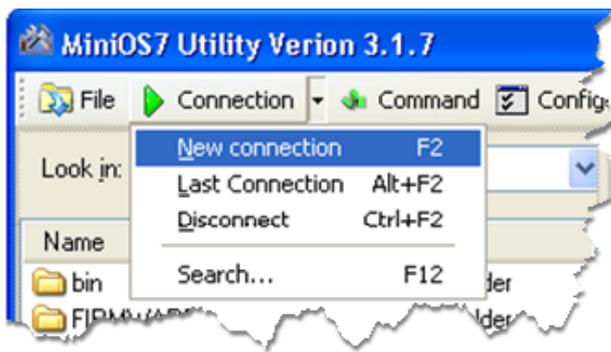
# 5

## Establishing a Connection between I-7188EX and PC

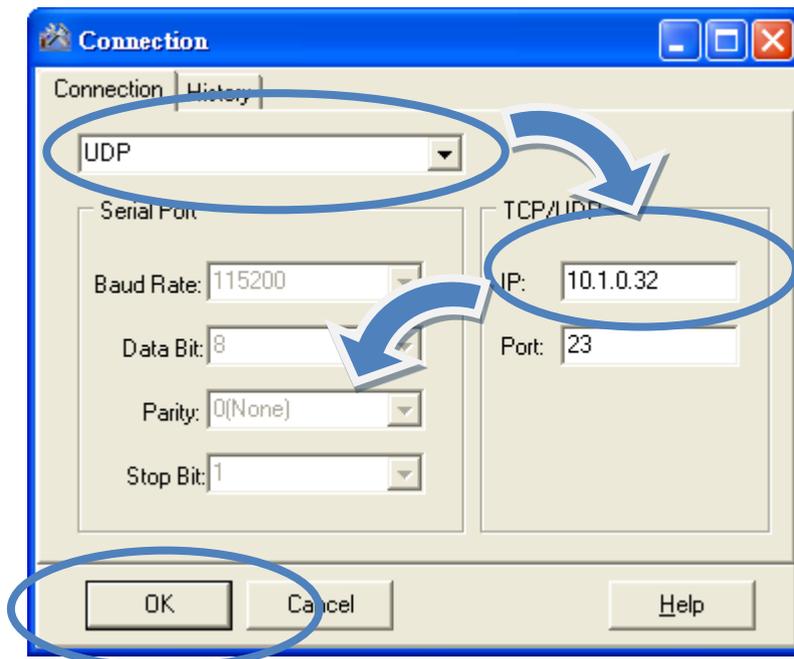
MiniOS7 Utility is PC-based utility, that can used to establish a connection between I-7188EX and PC.

### Step 1: Run the MiniOS7 Utility and configure the connection settings

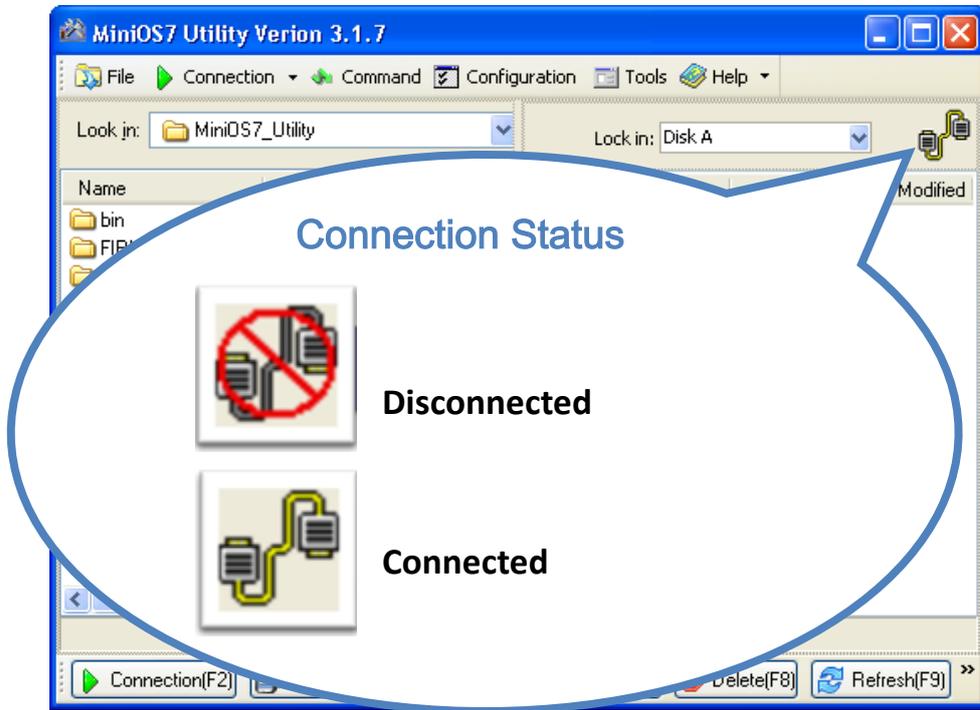
- i. Make sure that the I-7188EX is running in init mode
- ii. Double-click the **MiniOS7 Utility** shortcut on your desktop.
- iii. Press **F2** or choose **New connection** from the **Connection** menu.



- iv. Choose **UDP** or **COM** from the drop-down list.
- v. Enter the IP address and then press **OK** button.



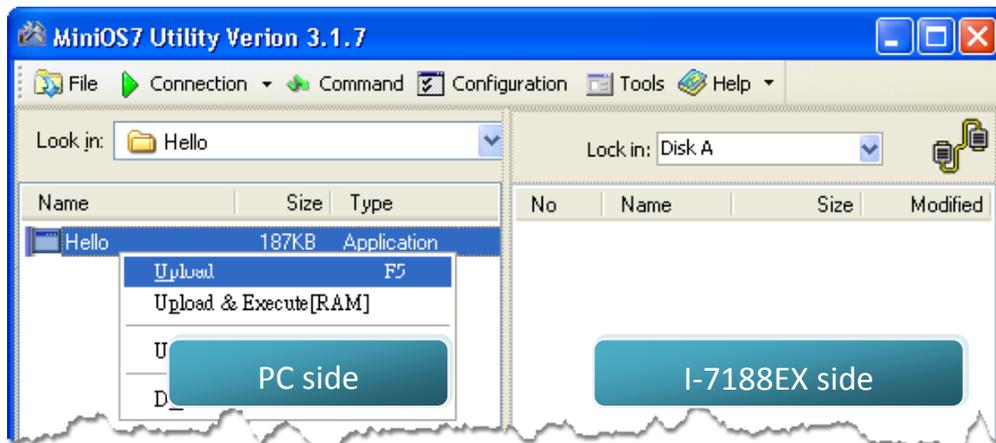
**Step 2: The connection has already established**



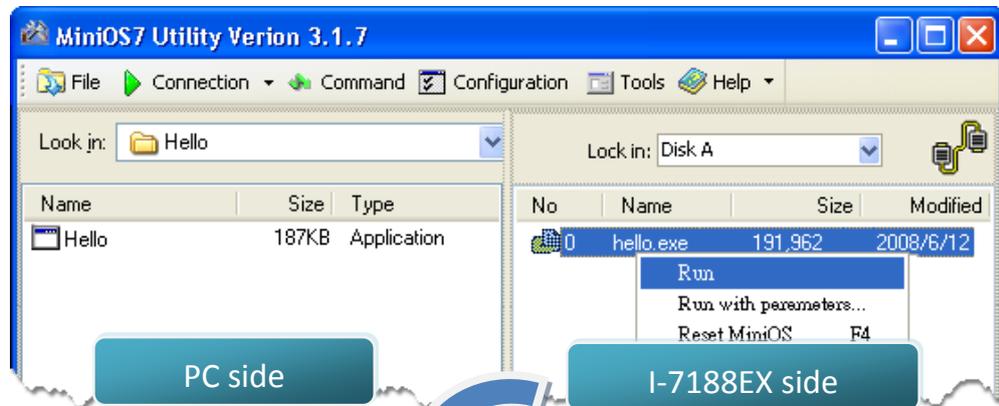
## 6 Uploading and Executing the Demo Program

After connecting to the I-7188EX, then you can upload and execute the demo program.

**Step 1: On PC side, right click the file name that you wish to upload and then select the Upload**



**Step 2: On the I-7188EX side, right click the file name that you wish to execute and then select the Run**



```
ca [UDP]Connect to 10.1.112.188:23 path=H:\7188E\Demo\BC_TC\Hello\Hello_C
7188eU.exe Ver. 1.12 [2006/08/10] Copyright(C) 2001-2006 ICPDAS
AutoRun:HELLO.EXE
Autodownload files: None
Current work directory="H:\7188E\Demo\BC_TC\Hello\Hello_C"
[Begin Key Thread...]
7188E_UDP>run #0
Hello 7188E! <Flash memory is 512 K>
Library version is 2.01
7188E_UDP>
```

## 7 Developing Your Own Application

After you learned to download programs to I-7188EX, then you can start developing your own applications.

Here are some guideline and tips related to the I-7188EX.

- **7188E series Software User Manual**

CD:\Napdos\7188e\Document\7188Ess.pdf

<ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/7188e/document/7188ess.pdf>

- **7188E series Hardware User Manual**

CD:\Napdos\7188e\Document\7188Ehh.pdf

<ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/7188e/document/7188ehh.pdf>