

1 What's in the shipping package?

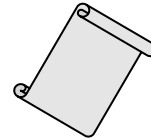
The package includes the following items:



UA-5000



Software CD



Quick Start
(This Document)



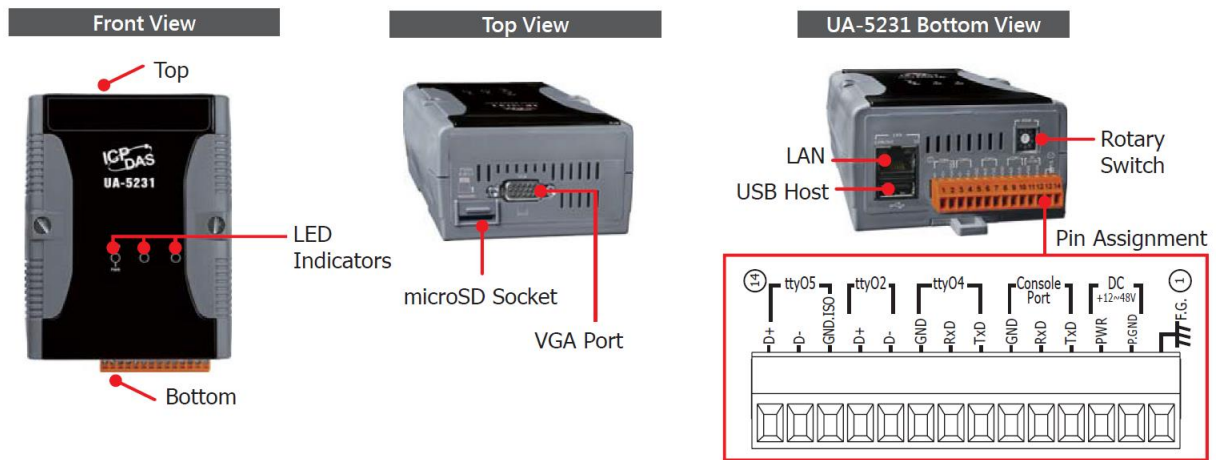
CA-0910 Cable

2 Preparations for devices

1. Power Supply: **+10 ~ +30 V_{DC}**. (Ex: DP-665)
2. Ethernet Hub. (Ex: NS-205)
3. Make sure your PC has workable serial port and network settings.

3

Hardware Introduction

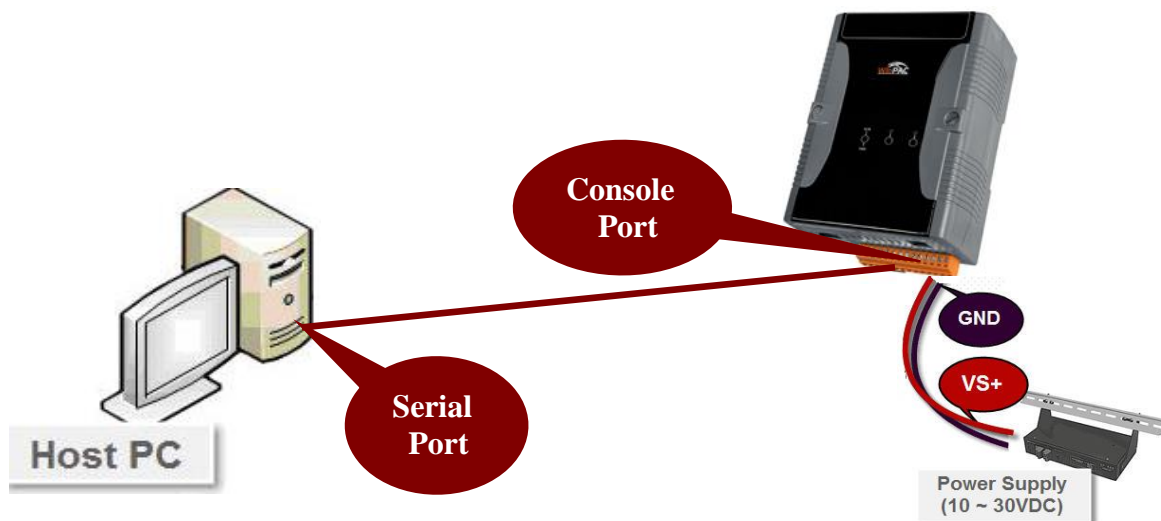


1. AM3354, 1GHz CPU
2. 512 MB SRAM and 256 MB Flash
3. Linux kernel 3.2.14
4. Hard Real-Time Capability
5. 64-bit Hardware Serial Number for Software Protection
6. 10/100/1000M Ethernet Port
7. 4 Serial Ports (RS-232/485)

Console Port	RS-232 (RxD, TxD and GND); Non-isolated
tty04	RS-232 (RxD, TxD and GND); Non-isolated
tty02	RS-485 (Data+, Data-); Non-isolated
tty05	RS-485 (Data+, Data-); 2500 VDC isolated

8. Operating Temperature: -25 ~ +75°C

4 Console Connection



1. Connect both the UA-5000 and your computer through the "Console Port", and power the UA-5000 on.
2. Using the serial terminal software(ex Putty or others) and set the baud rate "115200" to connect to the device.

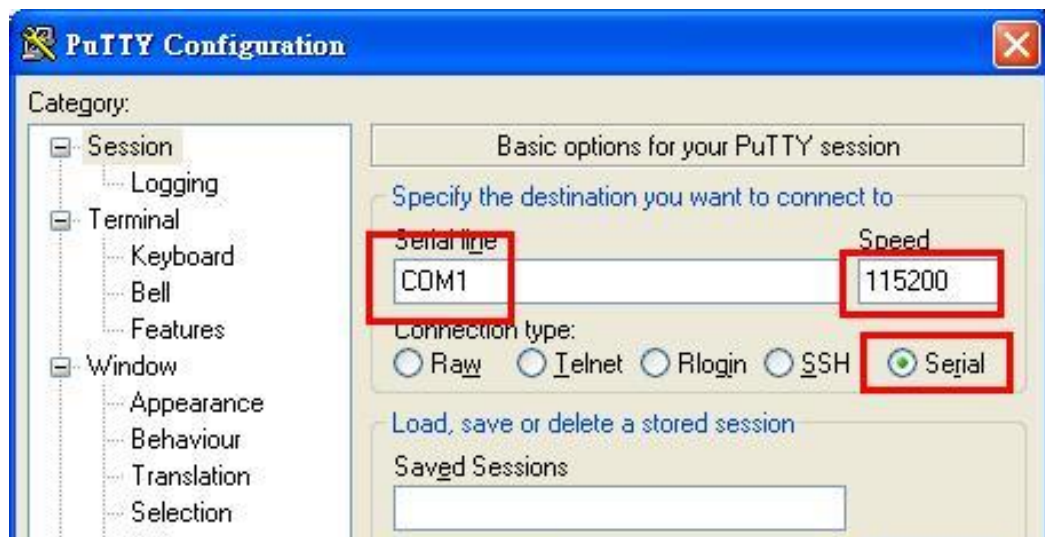


Fig 4-1 Console Connection

3. Type default ID "root" to login.

5

Network Configuration

1. After user follow step 4 “Console Connection” to connect to the device bash terminal, user can change the default network setting:

IP	192.168.255.1
Netmask	255.255.0.0
Gateway	192.168.1.1
User ID	root
Password	(no Password)

2. If user would set static IP(10.1.0.107) · netmask(255.255.0.0) and gateway(10.1.0.254), please refer to below example:

```
LP-5000:~# ipv4set static 10.1.0.107 255.255.0.0 10.1.0.254  
ipv4set static ... OK
```

3. If user would set dynamic IP, please refer to below example:

```
LP-5000:~# ipv4set dhcp  
ipv4set dhcp ... OK
```

4. After user set the device’s IP, user can use the Putty(or other ssh client software) to connect to the UA-5000:

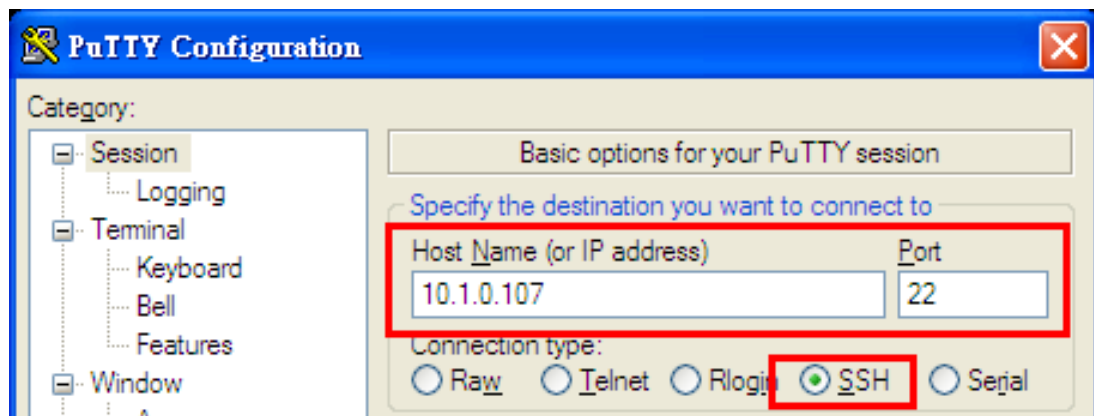


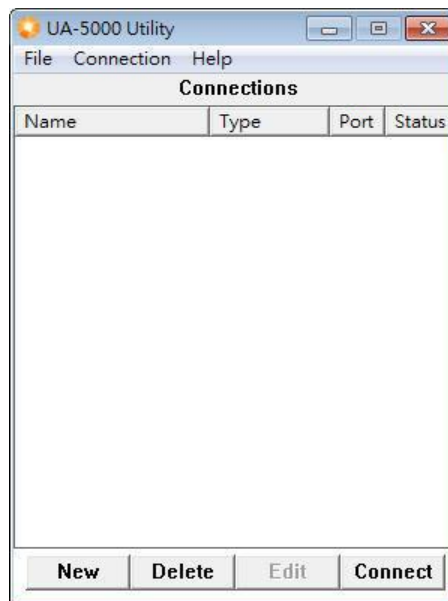
Fig 5-1 SSH Connection

6

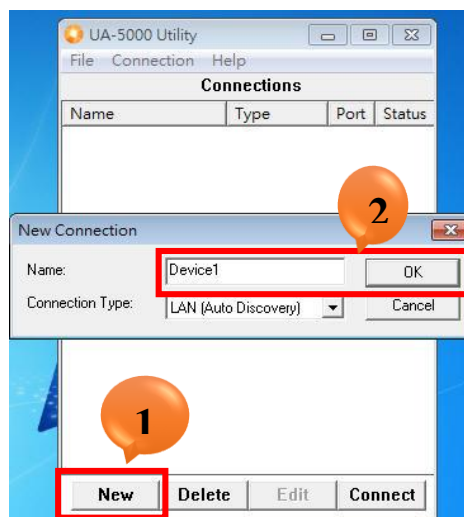
Link to UA-5000 Web-based UI

Using the **UA-5000 Utility** (named "UA-5000utility.exe") at the path of the companion CD (i.e., **CD:/UA-5000/Utility/**). Please copy this file to your PC, and then run it to connect the device.

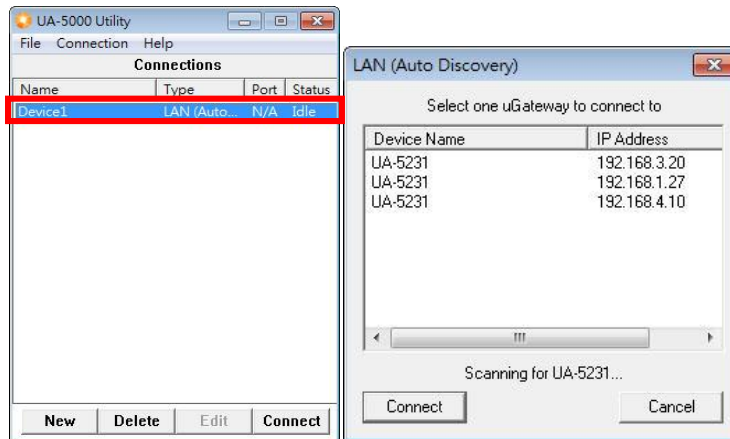
1. Run the UA-5000 Utility (file name: **UA-5000utility.exe**).



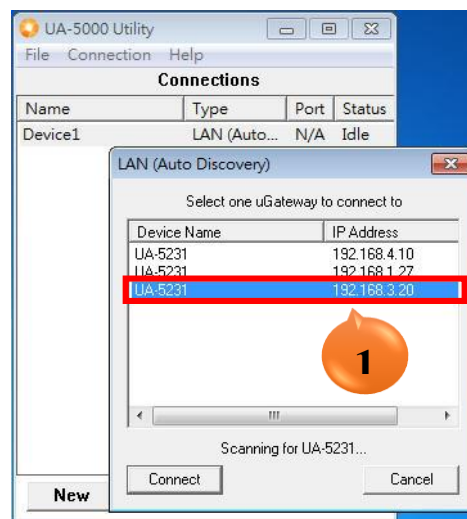
2. Add a connection item and give a name for it.



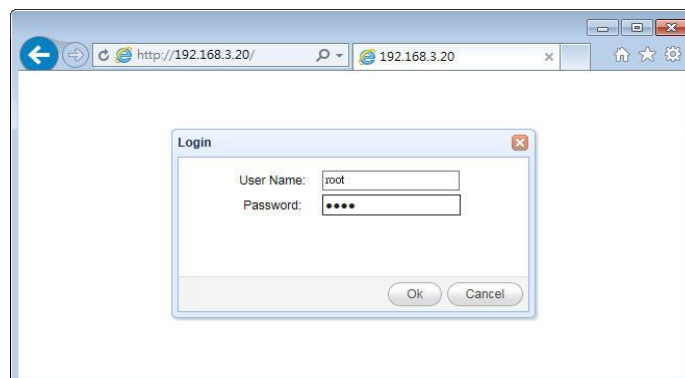
3. Mouse double-click on the name you created (or single-click and then click the "Connect" button), this utility will search and list all devices over the network.



4. Click the device name you want to connect to, and then click the "Connect" button. It will connect to the UA-5000 web interface via the default browser.



5. A login dialog box will appear, entering your user name and password, and then click "OK". The factory default user name and password are "root".



7

Application Support

1. Systemd Support

“Systemd” is a system and service manager for Linux operating systems. User can start/stop/enable/disable software service by using command “systemctl”.

2. Web Server

The web server daemon “lighttpd” has been built in the UA-5000 and it will be started automatically at boot time.

3. SFTP(or SCP)

The UA-5000 had supported SFTP(or SCP), user can transfer the file from Windows(or Linux). For examples, user use Windows Program “WinSCP” to access the device over network(please refer to Fig 7-1).

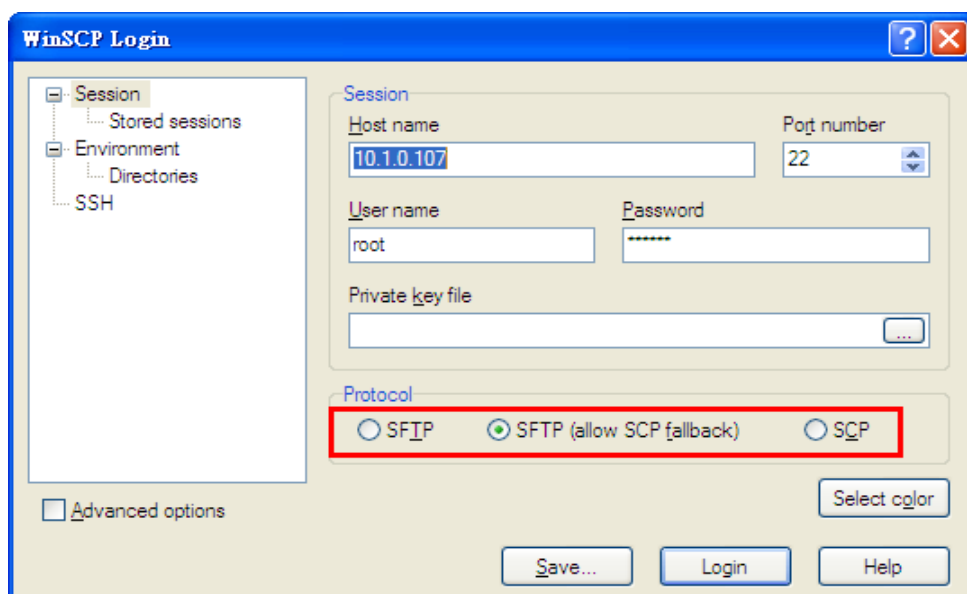


Fig 7-1 WinSCP

8

Product Related Information

- **UA-5000 Product Page:**

http://www.icpdas.com/root/product/solutions/industrial_communication/m2m_iiot_server/ua-5000.html

- **UA-5000 Document Download:**

http://ftp.icpdas.com.tw/pub/cd/ua-5000/user_manual/

- **UA-5000 Utility Tool Download:**

<http://ftp.icpdas.com.tw/pub/cd/ua-5000/utility/>

- **NS-205 and DP-665 Product Page (optional):**

<http://www.icpdas.com/products/Switch/industrial/ns-205.htm>

http://www.icpdas.com/products/Accessories/power_supply/dp-665.htm



ICP DAS Web Site: <http://www.icpdas.com>

Contact Us (E-Mail): service@icpdas.com , service.icpdas@gmail.com

Copyright @ 2015 by ICP DAS Co., Ltd. All Rights Reserved.