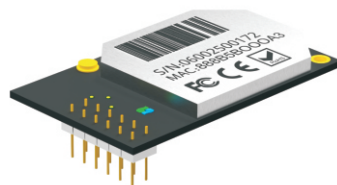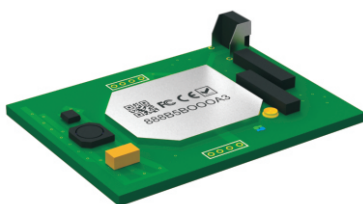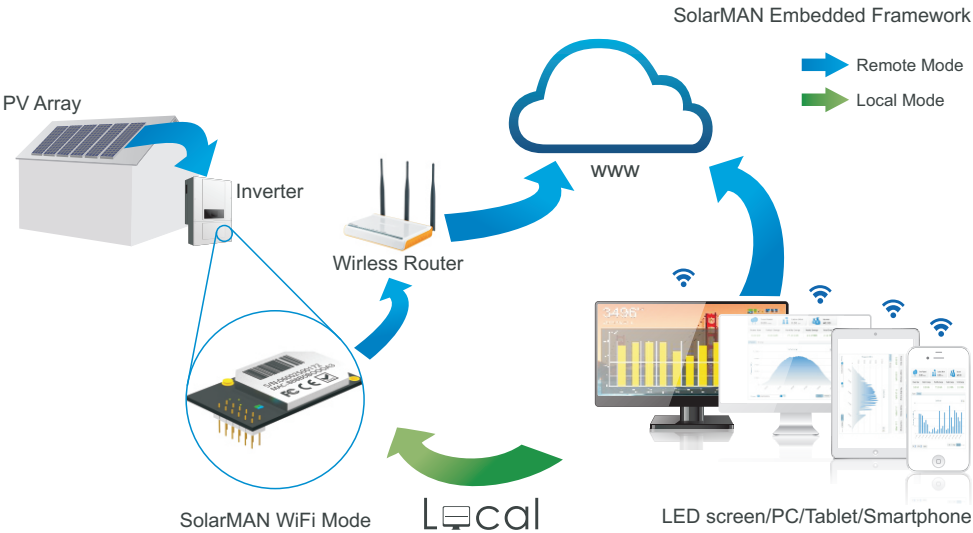# SolarMAN

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Embedded WiFi Kit
Quick Guide

From this page

SolarMAN Embedded WiFi Kit S-W02E/S-W02ES is an embedded data logging module. With its "plug & play" function, the module is embedded in an inverter and can collect information of PV systems from the inverter.

With the integrated WiFi function, the module can connect to router and transmit data to the web server, enabling users to view collected data by logging in the online monitoring portal (www.solarmanpv.com/portal). In addition, users can also get access to the internal web server of the module via WiFi and directly obtain data from the module.

SolarMAN Embedded Framework

Remote Mode
Local Mode

PV Array

Inverter

Wirless Router

www

SolarMAN WiFi Mode

L⊡cal

LED screen/PC/Tablet/Smartphone

This Quick Guide is intended to assist users in quick configuration and start of Embedded WiFi Kit S-W02E and S-W02ES. If any problems, please refer to corresponding chapters of **User Manual** for details.Configuration interfaces may differ according to different product models.
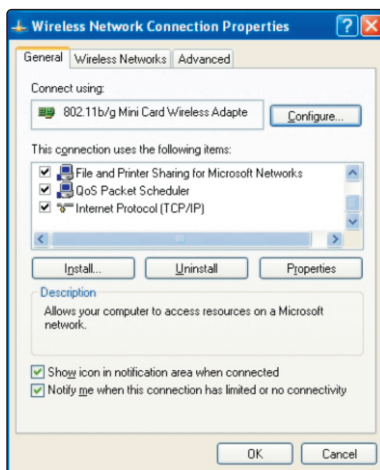
A: Network setting

The data logging module is embedded in the inverter. Users can start setting the network of the module once powering on the inverter.

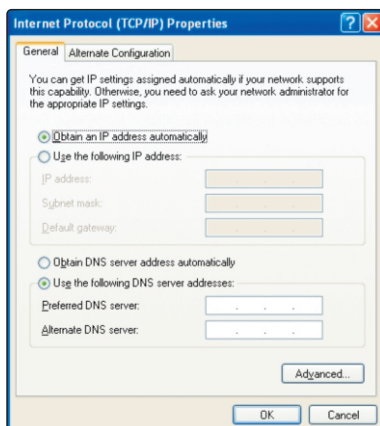┄┄┄┄ **Notice** ┄┄
The setting hereinafter is operated with Window XP for reference only. If other operating systems are used, please follow the corresponding procedures.
┄┄

   1). Prepare a computer or device, e.g. tablet PC and smartphone, that enables WiFi.
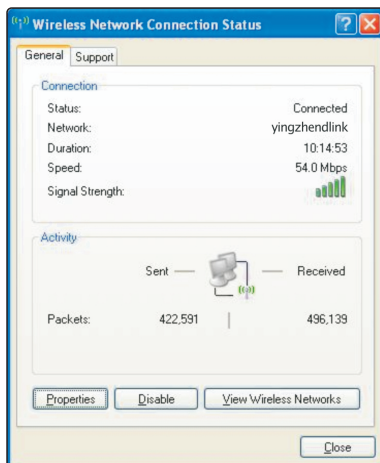
   2). Obtain an IP address automatically.

① Open **Wireless Network Connection Properties**, double click **Internet Protocol (TCP/IP)**
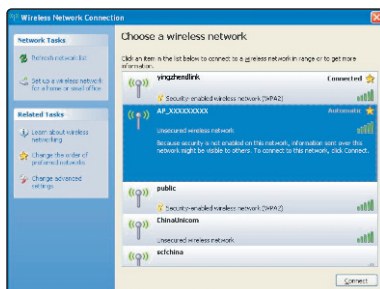
② Select **Obtain an IP address automatically**, and click **OK**

③ Set WiFi connection to the module

a). Open wireless network connection and click **View Wireless Networks**

b). Select wireless network of the data logging module, no passwords required as default. The network name consists of **AP** and the **serial number of the product**. Then click **Connect.**
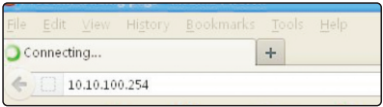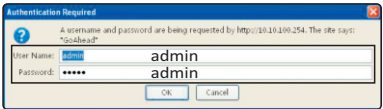

c). Connection successful

④ Set parameters of WiFi module

a). Open a web browser, and enter **10.10.100.254**, then fill in username and password, both of which are **admin** as default.

b). In the configuration interface of WiFi module, you can view general information of the module.Follow the setup wizard to start quick setting.

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Staus	-**Device information**	
Wizard	Device serial number	9000000001
Wireless	Firmware version	S-WO1E V2.0.6F
Cable	AP mode	
Advanced	SSID	AP-9000000001
Account	IP address	10.10.100.245
Update	MAC address	AC:CF:23:0F:5F:78
Restart	STA mode	
Reset	Router SSID	AP_SOLAR_PORTAL_M2M_20120615
	Signal Quality	0%
	IP address	0.0.0.0
	MAC address	AC:CF:23:0F:5F:79

Help

The device can be used as a wireless access point(AP mode) to facilitate users to confgure the device. or it can also be used as a wireless informarion terminal(STA mode) to connect the remote server via wireless router..

If AP mode is tumed off, or AP mode is on while STA mode is off, the device can only be connected to remote server through cable network..

-**Remote server information**

Remote server A   Default

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① Click **Wizard** to start

② Click **Start** to continue

③ Select **Wireless connection**, and click **Next**

If you wish to use cable connection, please refer to User Guide for Cable Connection.

④ Click **Refresh** to search available wireless networks, or add it manually

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Staus
Wizard
Wireless
Cable
Advanced
Account
Update
Restart
Reset

Please select your current wireless network:

○ CMCC-AUIO	5e:ac:0a:2c:bc:3f	10%	1
○ CMCC	4e:ac:0a:2c:bc:3b	10%	1
○ CMCC	4c:ac:0a:2b:04:9f	76%	1
○ CMCC-AUIO	5e:ac:0a:26:8b:fe	10%	1
○ CMCC-AUIO	5e:ac:0a:2b:04:9f	70%	1
○ CMCC	4c:ac:0a:26:8b:fe	10%	1
○ d5studio	e0:05:c5:b2:7b:5a	15%	2
○ anklam	90:94:e4:3c:61:1c	70%	2
○ dalai365	00:21:27:46:c5:98	29%	3
○ SOLARMAN_AP	ac:cf:23:ff:02:9c	100%	3
◉ yingzhendlink	ec:6c:9f:04:b3:2c	96%	6
○ keysense	00:21:27:5c:06:98	5%	6
○ CMCC-AUIO	5e:ac:0a:26:8b:f7	5%	6

Refresh

Add wireless network manually:

Network name(SSID) (Note: case sensitive)	yingzhendlink
Encryption method	WPA2PSK ▾
Encryption algorithm	TKIP ▾

Back　Next

① ② ③ ④ ⑤ ⑥

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Help

This step will help to connect the device to your desired WLAN. If you do not find your wireless router on the left list, please refresh several times or add it manually.

Please check your wireless router for the right encryption method and encryption algorihm.

⑤ Select the wireless network you need to connect, then click **Next**

Notice

If the signal strength (RSSI) of the selected network is <10%, which means unstable connection, please adjust the antenna of the router, or use a repeater to enhance the signal.

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Please enter the wireless network password:

Help

Please make sure you have entered the correct password.

Staus
Wizard
Wireless
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Advanced
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Password(1-32 bytes)
(Note: case sensitive)
Re-enter password

••••••
••••••
☐ Show Password

Back   Next

① ② ③ ④ ⑤ ⑥

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⑥ Enter the password for the selected network, then click **Next**

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Please fill in the following information:

Help

Most systems support the function of DHCP to obtain IP address automatically. Please add it manually if your router does not support such function.

Staus
Wizard
Wireless
Cable
Advanced
Account
Update
Restart
Reset

Obtain an IP address automatically   Enable ▾

IP address   0.0.0.0

Subnet mask   0.0.0.0

Gateway address   0.0.0.0

DNS server address

Back   Next

① ② ③ ④ ⑤ ⑥

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⑦ Select **Enable** to obtain an IP address automatically, then click **Next**

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Congratulations, setting successful!

Staus
Wizard
Wireless
Cable
Advanced
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Please log in our management portal to register. and start monitoring and managing your PV system.

After clicking the "ok" button, the system will restart.

Help

After clicking "OK", the system will restart automatically.

Please wait for a while during restart.

Back | OK

① ② ③ ④ ⑤ ⑥

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⑧ If setting is successful, the above page will display. Click **OK** to restart.

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Rebooting successful!

Staus
Wizard
Wireless
Cable
Advanced
Account
Update
Restart
Reset

You can manually close this page; or reconnect the network of the device and re-login the configuration interface.

Help

After clicking "OK", the system will restart automatically.

Please wait for a while during restart.

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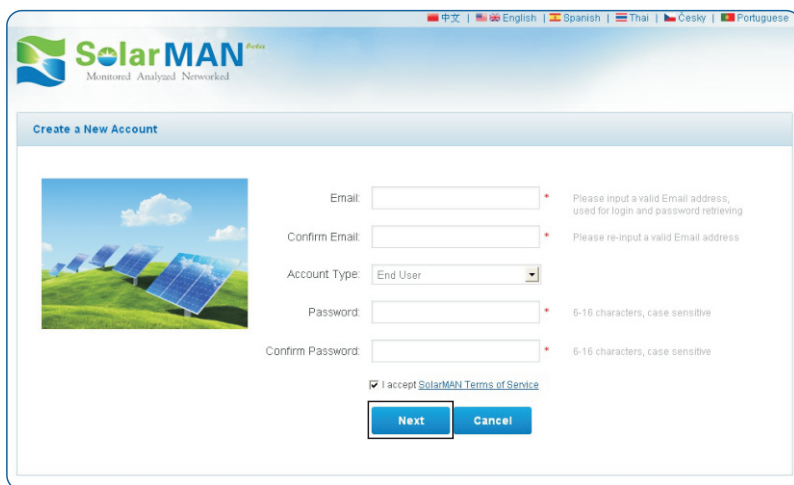⑨ If restart is successful, the above page will display.

B: Register on SolarMAN Portal

Open a web browser and visit the portal website: http://www.solarmanpv.com/portal .

Supported browsers: Internet Explorer 8+, Google Chrome 10+, Firefox 9+, Safari 4+

① Click **Register Now**

② Fill in your email address and password, then click **Next**
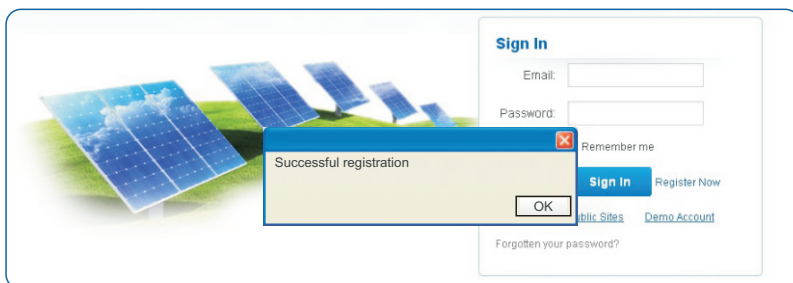
③ Fill in the information as required, then click **Complete**

④ If registration is successful, the above page will display. Click **OK** to return to the
homepage of the portal.

C: Log in SolarMAN Portal to manage power station

After successful registration, open the login page of SolarMAN Portal, and input your E-mail and password to access the monitoring system and start monitoring and management of power plants.

Notice

If users access the monitoring system for the first time within ten minutes after successful registration, please check the "Real Time" interface . If there are data shown in the Real Time interface, network setting of data logger and other connection are deemed successful.

D: Trouble shootings

Please refer to User Manual 5.3.

E: Trouble shootings

If any technical problems, please contact us, with the following information in hand:

 ※ Device model

 ※ Serial number of product

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