

# SG6300NZL Quick Start Guide

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## Chapter 1: SG6300NZL Hardware Installation

## 1.1 SG6300NZL Overview

## SG6300NZL Front Panel LEDs



1	Power	Green: Power ON	
_		Red: System failure. Restart the device or contact	
		Lit up:	
2	IAN	Successfully connected with a broadband connection device	
-		Blinking:	
		Data being transmitted/received	
		Lit up:	
2		Successfully connected with a broadband connection device	
5	WAN	Blinking:	
		Data being transmitted/received	
		Green:	
4	USB	Connecting to a USB dongle or a hard drive.	
		Lit up:	
_	Wi-Fi	Successfully connected with a broadband connection device	
5		Blinking:	
		Data being transmitted/received	
		Flashes about once every 3 seconds when the wireless	
6	7'. D	connection is established.	
6	ZIgBee	Flashes about 3 times per second when the device is set to the	
		state waiting for being joined by other smart meters.	
_		Green:	
/	RS485	Build up the connection between Gateway and RS485 device	
		4G LTE status	
	WWAN	Green: Excellent signal condition	
		Green flashing quickly: Good signal condition	
8		Orange flash quickly: Fair signal condition	
		Orange flash slowly: Poor signal condition	
		Orange: No signal	
I	I	1	

		Off: No LTE module
	Internet	Green: Connect to internet
9	Internet	Orange: Disconnect to internet

## SG6300NZL Rear Panel



1	RS485	Connect to RS485 device
2	SD Card	Data storage
3	USB	Data storage
4	WAN	WAN 10/100M Ethernet port (with auto crossover support); connect Cable modem here.
		Connect a UTP Ethernet cable (Cat-5 or Cat-5e) to one of the
5	LAN	LAN ports when connecting to a PC or an office/home network
		of 10Mbps or 100Mbps.
c	ZigRoo	Push ZigBee button to trigger ZigBee function, thus smart
0	Zigbee	meter allowing join in is starting
		To be sure the device is being turned on press RESET button for
		6 seconds and above: restore to factory default settings.
		(Cannot
7	Reset	login to the router or forgot your Username/Password. Press
		the button for more than 6 seconds).
		Caution: After pressing the RESET button for more than
		6 seconds, to be sure you power cycle the device again.
8	Power	Connect it with the supplied power adapter.
9	Switch	Device is power on/off.

## **1.2 Internet Installation**

**EWAN Installation** 

SG6300NZL's WAN port connects to backbone router's LAN port.

Please refer 5.1 Internet connection configuration by Quick Start to set internet.



## 4G LTE Installation

Insert the SIM card with the gold contact facing down.



Please refer 5.1 Internet connection configuration by Quick Start to set internet.

## 1.3 ZigBee Pairing

#### Example SG3015 serials pair to SG6300NZL

STEP\_1 Ensure the ZigBee device power on and not join any ZigBee coordinator.
 If Status LED lit green that mean ZigBee Meter is waiting mode, please go STEP 3
 If Status LED blinking green that mean ZigBee Meter has been pair other SG6300NZL,
 Before pair ZigBee Meter with SG6300NZL, please refer ZigBee Meter UM to do un-pairing.



STEP\_2 Push ZigBee button on the rear panel of the ZigBee Coordinator to make a connection.



STEP\_3 Then, ZigBee LED in the front panel will blink quickly around 60 seconds



- STEP\_4 The smart meter will be automatically paired and joined to the ZigBee network. The Meter Status LED would blink slowly and steadily, indicating that the power meter is successfully paired
- STEP\_5 Access to SG6300NZL's WEB GUI to configure your ZigBee Device Please refer 6.1 ZigBee Configuration

## 1.4 RS485 Installation

Example SG3010S serials connect to SG6300NZL by RS485

- STEP\_1 Install SG3010S in the real side, ensure meter power ON.
- STEP\_2 SG3010S's RS485+ connect to SG6300NZL's RS485+ SG3010S's RS485- connect to SG6300NZL's RS485-



STEP\_3 Access to SG6300NZL's WEB GUI to configure your ZigBee Device Please refer 7.1 RS485 Configuration

## **Chapter 2: Network Configuration**

- 2.1Configuring a PC in Windows 7
- 1. Go to Start. Click on Control Panel.
- 2. Then click on Network and Internet.
- When the Network and Sharing Center window pops up, select and click on Change adapter settings on the left window panel.
- Select the Local Area Connection, and right click the icon to select Properties.



 Select Internet Protocol Version 4 (TCP/IPv4) then click Properties.

- In the TCP/IPv4 properties window, select the Obtain an IP address automatically and Obtain DNS Server address automatically radio buttons. Then click OK to exit the setting.
- Click OK again in the Local Area Connection Properties window to apply the new configuration.

	2		
Networking Sharing			
Connect using:			
😰 Broadcom 570x Gigabit Integra	ated Control	ler	
		Conf	iqure
This connection uses the following ite	ems:		
Client for Microsoft Networks	S		
QoS Packet Scheduler	/licrosoft Ne	tworks	
Internet Protocol Version 6 (	TCP/IPv6)		
<ul> <li>Internet Protocol Version 4 (</li> <li>Link-Layer Topology Discov</li> </ul>	ery Mapper	I/O Driv	er
🗹 🔺 Link-Layer Topology Discov	ery Respon	der	
		-	
Description		Prope	erties
Transmission Control Protocol/Inte	met Protoco	ol. The d	efault
wide area network protocol that pr across diverse interconnected net	ovides com works.	municatio	on
	OK		Canad
	ОК		Cancel
remet Protocol Version 4 (TCP/IPv4) (	OK		Cancel
ternet Protocol Version 4 (TCP/IPv4) F	OK Properties		Cancel
ternet Protocol Version 4 (TCP/IPv4) F General Alternate Configuration	OK		Cancel
ternet Protocol Version 4 (TCP/IPv4) F General Alternate Configuration You can get IP settings assigned autom this capability. Otherwise, you need to	OK Properties atically if you ask your net	ur networ	Cancel
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## **Chapter 3: Factory Default Settings**

Before configuring the Billion SG6300NZL router, you need to know the following default settings.

### Web Interface: (Username and Password)

- Username: admin
- Password: admin

The default username and password are "admin" and "admin" respectively.

### **Device LAN IP settings**

- IP Address: 192.168.5.254
- Subnet Mask: 255.255.255.0

#### ISP setting in WAN site

Obtain an IP Address Automatically

#### **DHCP** server

- DHCP server is enabled.
- Start IP Address: 192.168.5.100
- ▶ IP pool counts: 100

### LAN and WAN Port Addresses

The parameters of LAN and WAN ports are preset at the factory. The default values are shown below

LAN Port		WAN Port
IP address	192.168.5.254	The DHCP function is
Subnet Mask	255.255.255.0	enabled to automatically get the WAN port configuration
DHCP server function	Enabled in LAN port	from the ISP.
IP addresses for distribution to PCs	100 IP addresses continuing from 192.168.5.100 through 192.168.5.199	

## **Chapter 4: Information from your ISP**

Before configuring this device, you have to check with your ISP (Internet Service Provider) what kind of services are provided, such as PPPoE, Obtain an IP Address Automatically, Fixed IP address.

Gather the information as illustrated in the following table and keep it for reference.

PPPoE	Username, Password, Service Name, and Domain Name System (DNS) IP address (it can be automatically assigned by your ISP when you connect or be set manually).
Obtain an IP Address Automatically	DHCP Client (it can be automatically assigned by your ISP when you connect or be set manually).
Fixed IP Address	IP address, Subnet mask, Gateway address, and Domain Name System (DNS) IP address (it is fixed IP address).

## **Chapter 5: Configuring Internet with your Web Browser**

Open your web browser, enter the IP address of your SG6300NZL, which by default is **192.168.5.254**, and click "**Go**", a user name and password window prompt appears. Enter the user name and password that your **Administrator** has set for you and select the **Account Type**, then click **Login**. When you are authorised, you will access to the router. The default username and password are "**admin**" and "**admin**" respectively for the Administrator account type.

#### 5.1: Internet Connection by Quick Start

This is a useful and easy utility to help you to setup the router quickly and to connect to your ISP (Internet Service Provider) with only a few steps. It will guide you step by step to setup password, time zone, wireless and WAN settings of your device. The Quick Start Wizard is a helpful guide for the first-time users to the device.



Quick Start	
*Quick Start	
The 'Quick Start' wizard will guide you to configure the device to con	nnect to your ISP(Internet Service Provider).
Please follow the 'Quick Start' wizard step by step to configure the	device. It will allow you to have Internet access within minutes.
Run Wizard	

For detailed instructions on configuring WAN settings, see refer to the Interface Setup section.

Quick Start	
*Quick Start	
The Wizard will guide you through these five quick steps. Begin by clicking on NEXT.	
Step 1. Set your new password	
Step 2. Choose your time zone	
Step 3. Set your wireless connection	
Step 4. Set your internet connection	
Step 5. Confirm the configuration and save it	
Next	

#### Click NEXT to move on to STEP\_ 1.

#### STEP\_1 Password

Set new password of the "admin" account to access for router management. The default is "admin".

Once changed, please use this new password next time when accessing to the router. Click NEXT to continue. **Suggest do not change the password.** 

Quick Start	
▼Quick Start - Password	
You may change the admin account password by entering in a new pas	sword. Click NEXT to continue.
New Password	
Confirm Password	
Back Next	

#### STEP\_2 Time Zone

Choose your time zone. Click NEXT to continue.

Quick Start		
▼Quick Start - Time Zone		
Select the appropriate time	zone for your location and click NEXT to continue.	
Time Zone	(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London	•
Back Next		

#### STEP\_3 Wireless

Set up your wireless connection if you want to connect to the Internet wirelessly on your PCs. Click NEXT to continue.

Quick Start		
▼Quick Start - Wireless		
Configure your wireless netw	vork, authentication type and click NEXT to continue.	
Access Point	<ul> <li>Activated</li> <li>Deactivated</li> </ul>	
SSID	wlan-ap	
Broadcast SSID	💿 Yes 🔘 No	
Channel	UNITED STATES V 06 V	
Security Type	OPEN T	
Back Next		

#### STEP\_4 ISP Connection Type

Set up your Internet connection.

4.1 Select an appropriate WAN connection protocol then click **NEXT** to continue.

Quick Start		
▼Quick Start - ISP Connectio	n Type	
Dynamic IP Address		
WAN Interface	3G/4G-LTE 🔻	
Back Next		

#### Input all relevant 3G/4G-LTE parameters from your ISP.

Quick Start		
* Quick Start - 3G/4G-LTE		
Enter the 3G information p	rovided to you by your ISP. Click NEXT to continue.	
TEL No.	*99***1#	
APN	internet	
Username		
Password		
PIN		
Back Next		

#### 4.2 If selected EWAN

Quick Start	
▼ Quick Start - ISP Connection Type	
Select the WAN Interface and Internet Connection Type	to connect to your ISP. Click NEXT to continue.
WAN Interface	EWAN(LAN2) •
	O Dynamic IP Address (Select the WAN Interface and Internet Connection Type to connect to your ISP. Click NEXT to continue.)
ISP	Static IP Address ( Choose this option to set static IP information provided to you by your ISP.)
	PPPoE (Choose this option if your ISP uses PPPoE)
Back Next	

**If selected PPPoE**, please enter PPPoE account information provided by your ISP. Click NEXT to continue. Or, others protocol assigned by your ISP.

Quick Start	
▼ Quick Start - PPPoE	
Provide the PPPoE information. Click NEXT to continue.	
Username	
Password	
Back Next	

**If selected Dynamic IP Address**. When connecting to the ISP, Billion SG6300NZL also functions as a DHCP client. Billion SG6300NZL can automatically obtain an IP address, subnet mask, gateway address, and DNS server addresses if the ISP assigns this information via DHCP.

Quick Start	
Quick Start - ISP Connection Type	
Select the WAN Interface and Internet (	Connection Type to connect to your ISP. Click NEXT to continue.
WAN Interface	EWAN(LAN2) T
	Dynamic IP Address (Select the WAN Interface and Internet Connection Type to connect to your ISP. Click NEXT to continue.)
ISP	Static IP Address ( Choose this option to set static IP information provided to you by your ISP.)
	PPPoE (Choose this option if your ISP uses PPPoE)
Back Next	

**If selected Static IP Address**. You will need to enter in the Connection type, IP address, Netmask, and gateway address, provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four IP octets separated by a dot (x.x.x.x). The Router will not accept the IP address if it is not in this format.

Quick Start		
▼ Quick Start - Static IP Address		
Provide the static IP information. Click	NEXT to continue.	
IP Address	192.168.17.63	
Subnet Mask	255.255.255.0	
ISP Gateway	192.168.17.70	
Primary DNS	8.8.8.8	
Secondary DNS		
Back Next		

#### STEP\_5 Quick Start Completed

The Setup Wizard has completed. Click on BACK to modify changes or mistakes. Click NEXT to save the current settings.



### STEP\_6 Quick Start Completed

Quick Start	
▼Quick Start - Quick Start Completed !!	
Quick Start Completed !!	
Saved Changes.	

## Chapter 6: Energy Management with ZigBee device

SG6300NZL build basic energy management application on WEB GUI, user can monitor real time power information and remote control power meter on the WEB GUI.

## 6.1 ZigBee Configuration

Once ZigBee Meter joined ZigBee Network, this page will show on ZigBee information. *Advance->Power Management-> Meter Config* 

BILLION		Sm	art Energy Gateway			Powering communication with Security
Advanced	Power Manager	nent			1	
Basic	▼Meter Config					
Status	Parameters					
Quick Start	Allow Join	Start				
Power Management	Scan Meter	Scan				
<ul> <li>Meter Config</li> </ul>	PLC IP Range	0.0.0.0	~0.0.0.0			
Power Control	FLO IF Range	0.0.0	0.0.0			
R\$485 Config	Meter List	Model Name	Appliance	Display Order	Identify	Remove
Control Rules	000D6F0003E6	94FD SG3030	N/A	T	Identify	Remove
Mail Alert						
Configuration	Apply Canc	el				
Language						

Allow Join: SG6300NZL will start allow ZigBee node joining to ZigBee Network.

Scan Meter: Show the current ZigBee nodes on the WEB GUI.

Meter List: Show the EUI64 of ZigBee nodes.

Alias: Setup alias name for ZigBee nodes.

Identify: Click "Identify" button on the WEB GUI, then INC. LED will be blinking orange. It can help user recognize which meter is under controlled.

**Remove:** Remove ZigBee nodes from ZigBee Network.

### 6.2 ZigBee Device Monitor

Show various power information from ZigBee Meters measured

#### Route

Advance->Status->Power Status



**Device ID:** EUI64 of ZigBee Meters.

Appliance: Base on Alias Name.

Power Status: Show current relay status of ZigBee Meter.

- **ON: Relay ON**
- OFF: Relay OFF
- N/A: Not support relay feature

Signal Strength: Show the Signal Strength between ZigBee nodes and next ZigBee nodes.

#### **Power information:**

Show Power information include as below

#### Voltage, Current, Frequency, PF, Active Power, Apparent Power, Mainenergy.

When you click blue link you will see detail power information.

BILLION		Smart Ener	rgy Gateway	9 Powerin with	19 communications 14 Security
Advanced	Status				
• Basic	✓ Meter 3 Phase Status				
▼ Status	Device Information				
BEsmart Status	Model Name	SG3030	Relay Status	N/A	
P2P Status	Device ID/EUI64	000D6E0003E694ED	Dry Contact	NC	
ZigBee Status	Phase Wire Tune	284/4/	Time Stamp	Sat Jan 1 00:12:20 2000	
Power Status	Thase whe type	51.444	Time Stamp	Sat Jan 1 00.15.20 2000	
Sensor Status	Appliance	N/A	Signal Strength	100%(Rssi:-47)	
• R \$485 Status	3 phase Power Information				
· Wireless Status		R phase	S phase	T phase	
• ARP Table	Voltage	108.98 (V)	108.95 (V)	109.07 (V)	
DHCP Table	Current	1.60 (A)	1.61 (A)	1.61 (A)	
System Log	Power Factor	100.%	100 %	100.%	
Firewall Log	Active Deriver	174.00 (40)	175 00 000	176 00 040	
UPnP Portmap	Active Fower	174.00 (vv)	175.00 (W)	170.00 (W)	
Quick Start	Apparent Power	174.00 (VA)	175.00 (VA)	176.00 (VA)	
Power Management	Main Energy	0.259 (kWh)	0.245 (kWh)	0.246 (kWh)	
Configuration	Negative Main Energy	0.001 (kWh)	0.001 (kWh)	0.001 (kWh)	
Language	Power Information				
	Frequency	60.03 (HZ)	Total Main Energy	0.043 (kWh)	
	Total Power Factor	100 %	Total Negative Main Energy	0.003 (kWh)	
	Total Active Power	525.00 (W)			
	Refresh Return				
				Save Config 👘 Restart	Logou
		Copyright @ Billion Electric C	co., Ltd. All rights reserved.		

## Chapter 7: Energy Management with RS485 device 7.1 RS485 Configuration

Advance->Power Management-> RS485 Config

BILLION			Smart Universal	Gateway		Powering communications with Security
Status     Quick Start	Configuration					
Power Management     Power Management     Power Control <u>R\$485 Config</u>	* RS485 Config Parameters Auto Detect	Enable V				
Control Rult <sup>(17)</sup> ZigBee Firmware     HTTP POST settings     Erase Database	Baud Rate User Define Regis Function Code	9600 <b>v</b> ter 03 <b>v</b>	Scan Device	Scan		
Zigbee Converter     Modbus over TCP     P2P     Configuration	Modbus Register1 Modbus Register2 Modbus Register3	N/A N/A N/A	WordLen WordLen WordLen	N/A N/A	]	
	Address Table Address	Model	CT Ratio	Address	Model	CT Ratio
	1 3	N/A <b>v</b>	1	2 4	N/A <b>v</b> N/A <b>v</b>	1

#### Set Baud Rate for RS485 used.

▼RS485 Config			
Parameters			
Auto Detect	Enable •		
Baud Rate	9600 🔻	Scan Device	Scan
User Define Regi	s 4800 9600		
Function Code	1920		
Modbus Register1	115200	WordLen	N/A
Modbus Register2	N/A	WordLen	N/A
Modbus Register3	N/A	WordLen	N/A
Address Table			

### Set the RS485 device to each ID, please ensure all RS485 devices already connect to SG6300NZL.

Configuration	N/A UserDefine	-					
▼R\$485 Config	SG3120 SG3110						
Parameters	SG3030S						
Auto Detect	SG3010S-iCB SG3010S-T3	v					
Baud Rate	SG3010S-T4		Scan Device	Scan			
User Define Regis	SG3110-34						
Function Code	3-in-1 Sensor						
Modbus Register1	DC Meter		WordLen	N/A			
Modbus Register2	TPS-Li Cell TPS-Fuel Cell		WordLen	N/A			
Modbus Register3	SG70-V1-O SG3202S		WordLen	N/A			
Address Table	SG3204S						
Address	SG3212S SG3216S	-	CT Ratio	Address	Model		CT Ratio
1	N/A		1	2	N/A	T	1

## 7.2 RS485 Device Monitor

Show various power information from RS485 Meters measured

#### Route

#### Advance->Status->RS485 Status

Status							
•R\$485 Sta	atus						
Device Info	rmation						
Table							
No.	Address	Model Name	Relay Status	Power Information	Success	Retry	
				Active Power 🔻			
1	1	SG3030S	N/A	2132.00 (W)	13	0	Reset
Refresh							

Address: Modbus address of RS485 Meters.

Model Name: The model name of RS485 device.

Power Status: Show current relay status of RS485 Meter.

ON: Relay ON

OFF: Relay OFF

N/A: Not support relay feature

#### Success:

The number of SG6300NZL reads RS485 device success.

#### **Retry:**

The number of SG6300NZL re-reads RS485 device.

#### **Reset:**

Reset the number of success and retry.

#### **Power information:**

Show Power information include as below

#### Voltage, Current, Frequency, PF, Active Power,

#### Apparent Power, Mainenergy (accumulation Power).

When you click blue link you will see detail power information.

Status			
■Meter 3 Phase Status			
Device Information			
Model Name	SG3030S	Communication Success	68
Address	1	Communication Retry	0
Time Stamp	Mon May 4 08:49:40 2015	Relay Status	N/A
Phase Wire Type	3P4W	Dry Contact	NC
3 phase Power Information			
	R phase	S phase	T phase
Voltage	112.42 (V)	112.34 (V)	112.47 (V)
Current	19.68 (A)	19.68 (A)	19.68 (A)
Power Factor	-100 %	100 %	100 %
Active Power	2214.00 (W)	2214.00 (W)	2214.00 (W)
Apparent Power	2214.00 (VA)	2214.00 (VA)	2214.00 (VA)
Main Energy	125.542 (kWh)	125.460 (kWh)	125.460 (kWh)
Negative Main Energy	0.000 (kWh)	0.000 (kWh)	0.000 (kWh)
Power Information			
Frequency	59.99 (HZ)	Total Main Energy	686.012 (kWh)
Total Power Factor	-100 %	Total Negative Main Energy	0.000 (kWh)