



Smart Energy Management Solutions

Implement Your Energy Makeover with Billion



Billion Smart Energy Management Solutions

Billion SG6200NXL

3G Wireless-N Smart Energy Gateway

- Fully IEEE 802.15.4 and ZigBee PRO compliant
- Dual WAN – broadband and 3G connections
- 802.11n wireless AP and client mode, up to 300 Mbps data rate
- Wireless bridge to connect with existing wireless gateway
- Supports multiple SSIDs
- Auto fail-over for always-on connection
- Certified with ZigBee Smart Energy Profile
- Compliant with ZigBee Home Automation Profile
- Provides API for vendors to develop their App and cloud services



Billion SG3015

15A ~ 300A ZigBee Smart Energy Meter Series

- Fully IEEE 802.15.4 and ZigBee PRO compliant
- Electricity usage data and other indicator information collection
- < 0.5% Wh accuracy
- Power surge protection
- Compact size
- Four connector types: T1, T2, T3, T4



Billion SG600

ZigBee Smart Energy Wireless-N Bridge

- Fully IEEE 802.15.4 and ZigBee PRO compliant
- 802.11n wireless AP and client mode, up to 150 Mbps data rate
- 64/128 bits WEP supported for encryption
- WPS for easy setup
- Wireless security with WPA-PSK/WPA2-PSK
- WDS repeater function
- Wireless bridge for connecting to existing wireless gateway
- Provides API for vendors to develop their App and cloud services



Billion SG3030

100A ~ 300A Three-Phase ZigBee Power Meter

- Fully IEEE 802.15.4 and ZigBee PRO compliant
- Electricity usage data and other indicator information collection
- < 1% Wh accuracy
- Power surge protection
- Supports 1P3W, 3P3W, 3P4W
- Dry contact for external appliance control



Billion SG3010-iCB

ZigBee Intelligent Current Control Box

- Fully IEEE 802.15.4 and ZigBee PRO compliant
- Electricity usage data and other indicator information collection
- Power control: 0.1~60A, programmable setting of trip current and time to protect the relays
- < 0.5% Wh accuracy



Billion SG3030S

100A ~ 300A Three-Phase RS485 Power Meter

- Electricity usage data and other indicator information collection
- < 1% Wh accuracy
- Power surge protection
- Supports 1P3W, 3P3W, 3P4W
- Dry contact for external appliance control



Billion SG2097

Smart Energy PLC Adapter

- Data rate up to 200Mbps
- Data transmission through power line
- Built-in smart metering function for energy management
- Built-in smart AC power on / off control function
- Utilizes QoS control
- Supports Triple - Play applications



Billion SG2095

Broadband PLC Ethernet Adapter with Remote Power On / Off Control

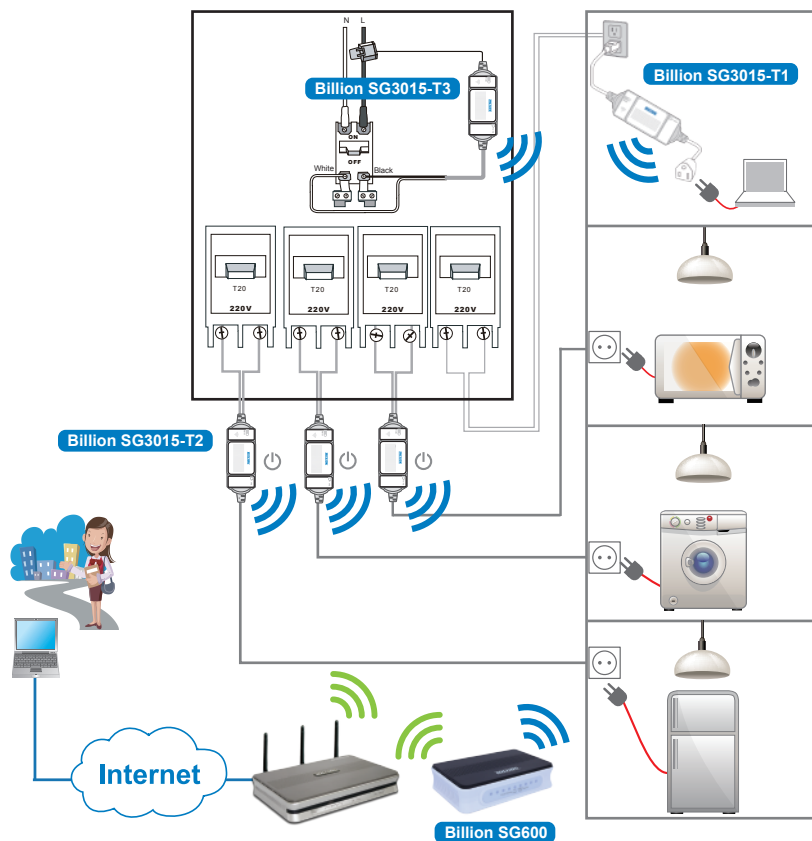
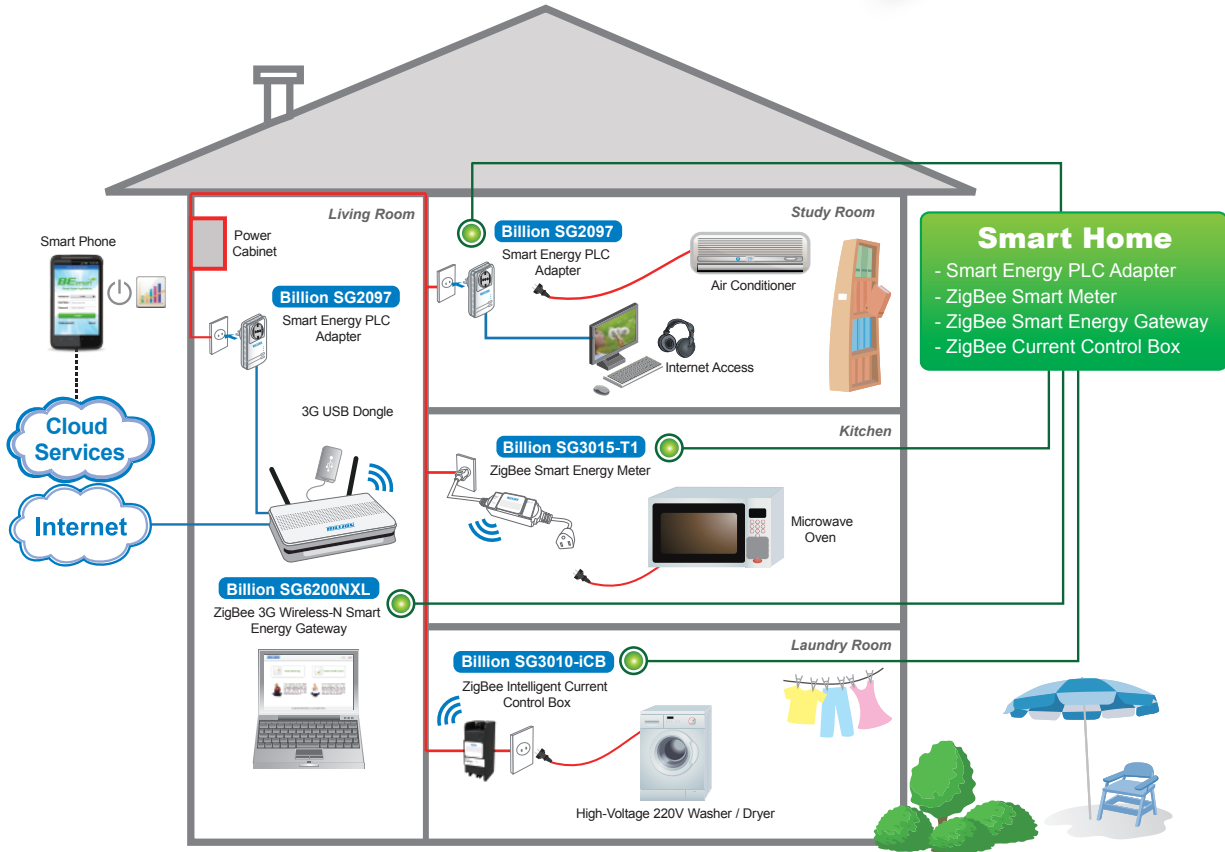
- Data rate up to 200Mbps
- Data transmission through power line
- Built-in smart AC power on / off control function
- Utilizes QoS control
- Supports Triple - Play applications



Bring a Smarter Experience to the Home



• Home Automation and HAN Energy Management



Smart Home Applications

By leveraging Billion Smart Energy solutions, utility companies can provide a wide range of energy management solutions to their customers to increase energy efficiency. Energy data can be communicated and delivered through in-home powerline loops and ZigBee wireless networks, enabling users to reduce energy consumption.

Home Area Network Energy Management

Via ZigBee technologies, the Billion SG600 can collect the power consumption of electrical appliances by connecting with the Billion smart meter series.

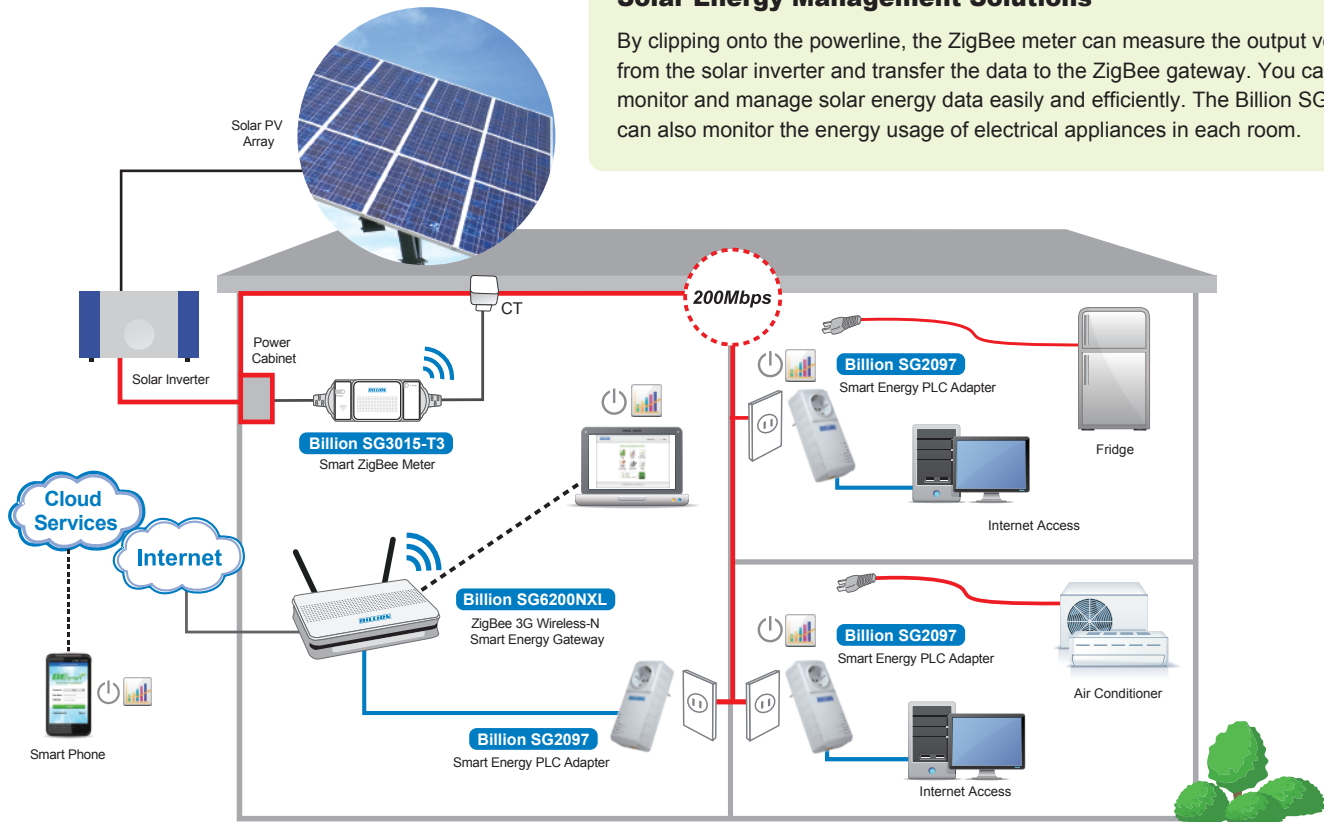
Smart Technology for a Sustainable Life



Renewable Energy Applications

Solar Energy Management Solutions

By clipping onto the powerline, the ZigBee meter can measure the output voltage from the solar inverter and transfer the data to the ZigBee gateway. You can monitor and manage solar energy data easily and efficiently. The Billion SG2097 can also monitor the energy usage of electrical appliances in each room.



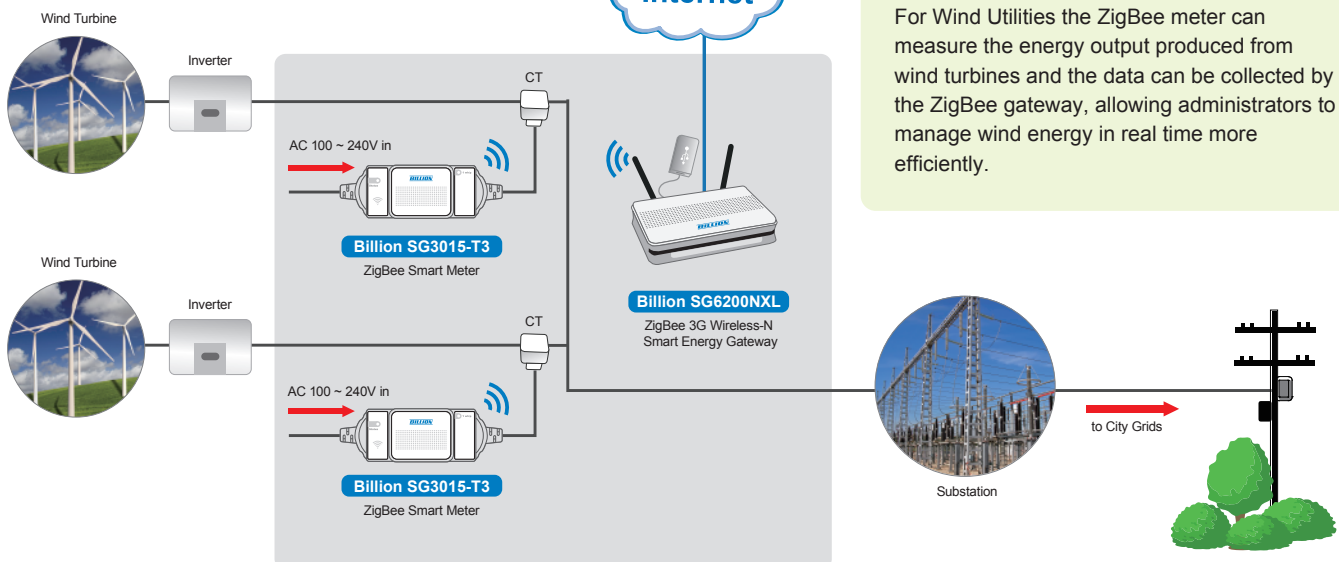
Utility Control Center



Internet

Wind Energy Management Solutions

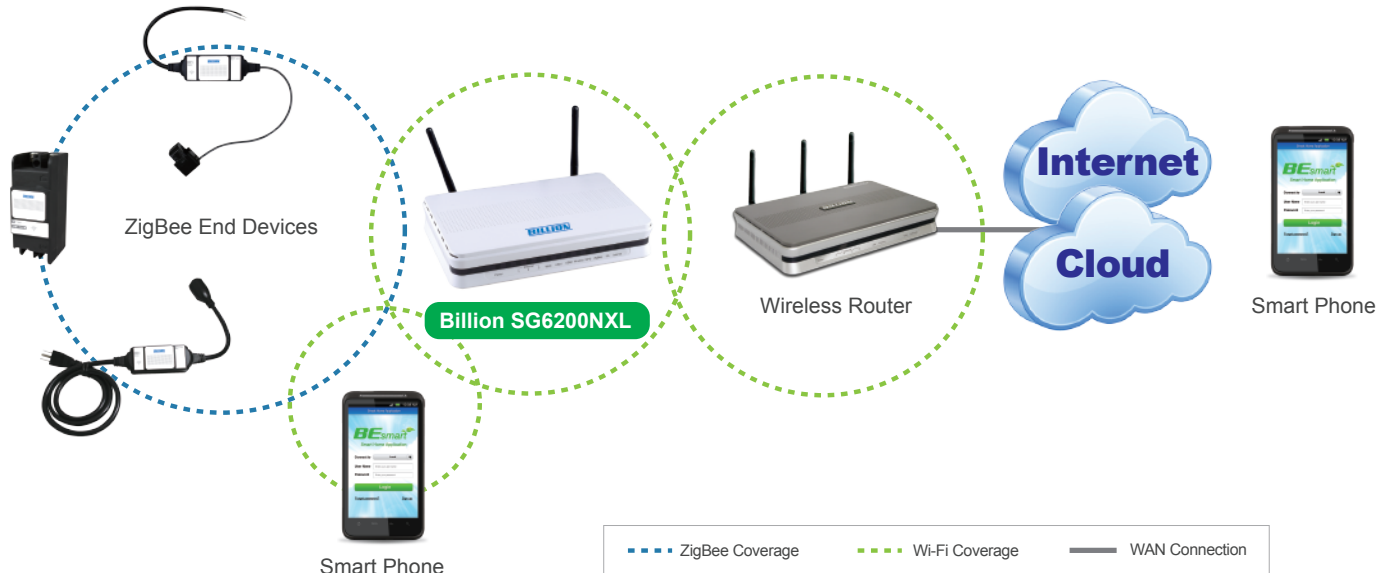
For Wind Utilities the ZigBee meter can measure the energy output produced from wind turbines and the data can be collected by the ZigBee gateway, allowing administrators to manage wind energy in real time more efficiently.



Enhance Your Smart Energy Networks

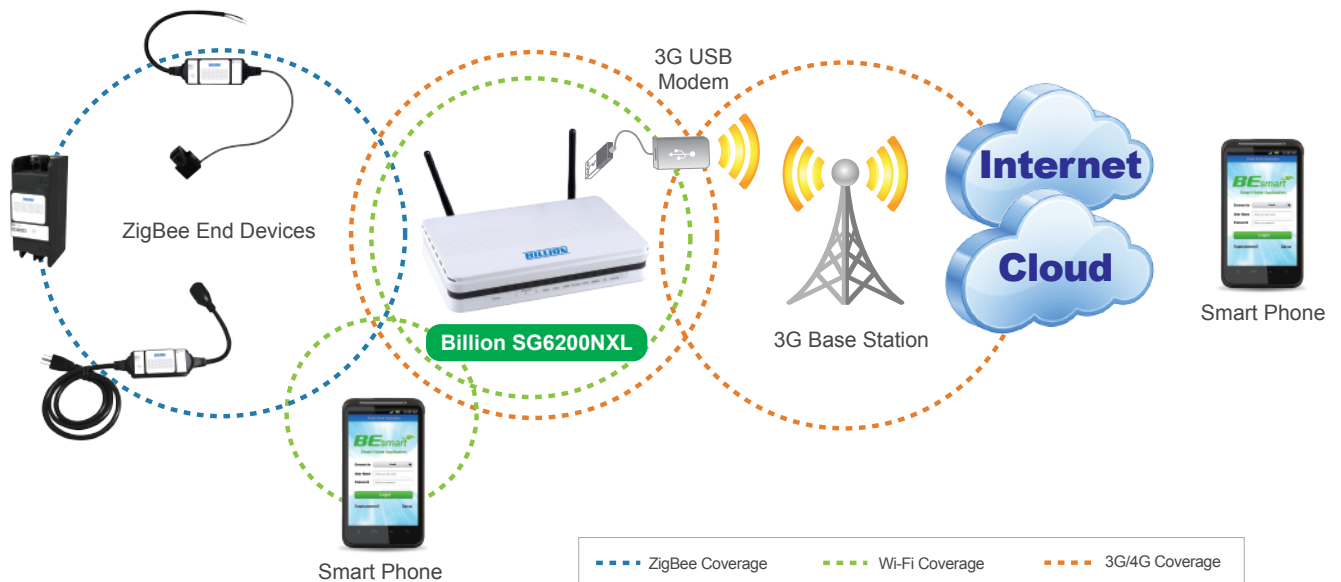


• Wireless AP Mode and Client Mode



The Billion SG6200NXL can function as a wireless AP and wireless client at the same time, enabling data collection from any ZigBee end devices via a ZigBee wireless network for energy management. It can also serve as a wireless bridge to further connect with an existing wireless gateway.

• 3G Wireless Broadband Router

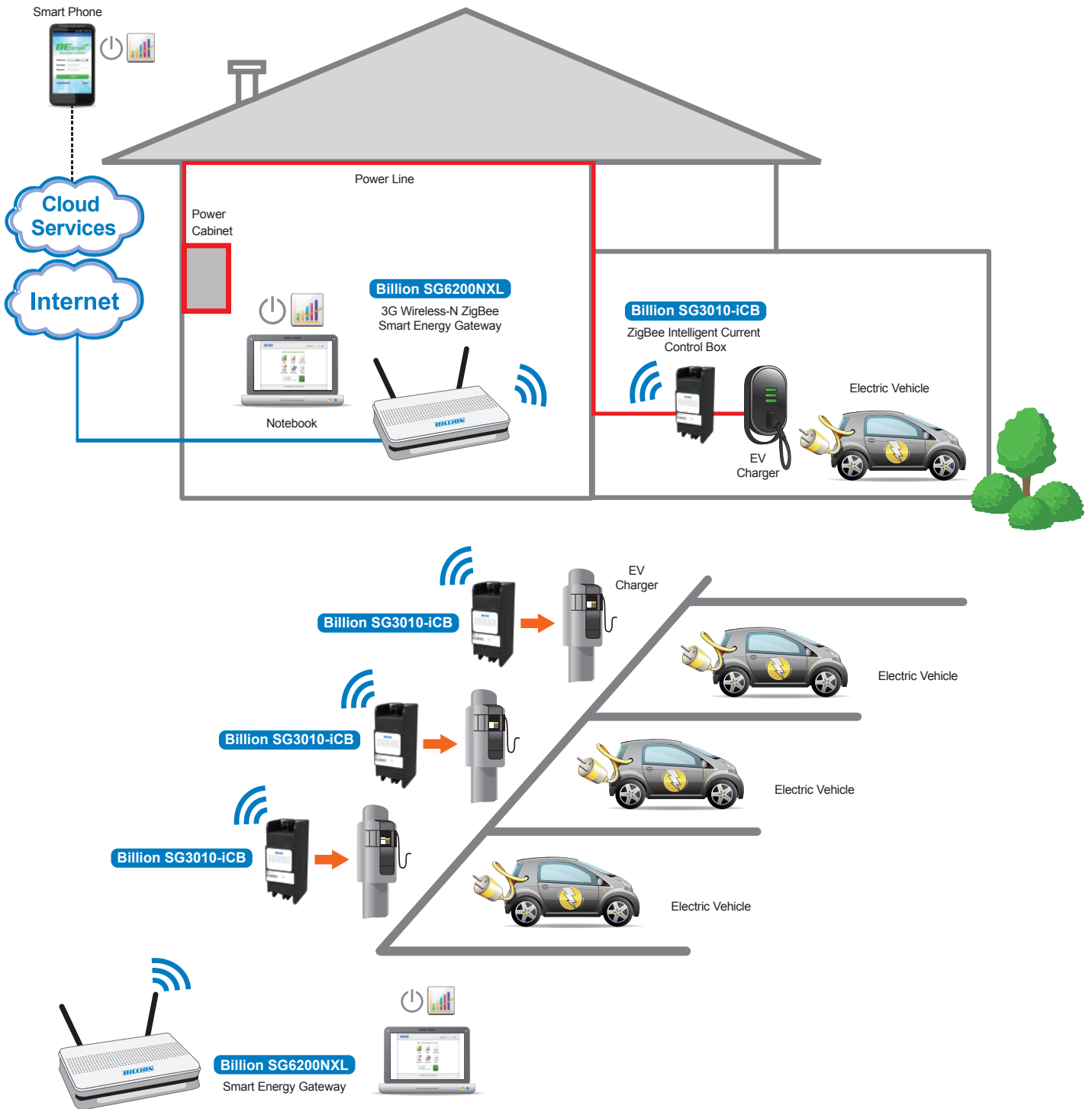


The Billion SG6200NXL functions as a 3G wireless broadband router as well. Users can connect to Internet services by plugging a 3G modem into this router without the need for access to a fixed-line network.

Fuel Up Your EV More Efficiently



• Electric Vehicle Metering Solutions

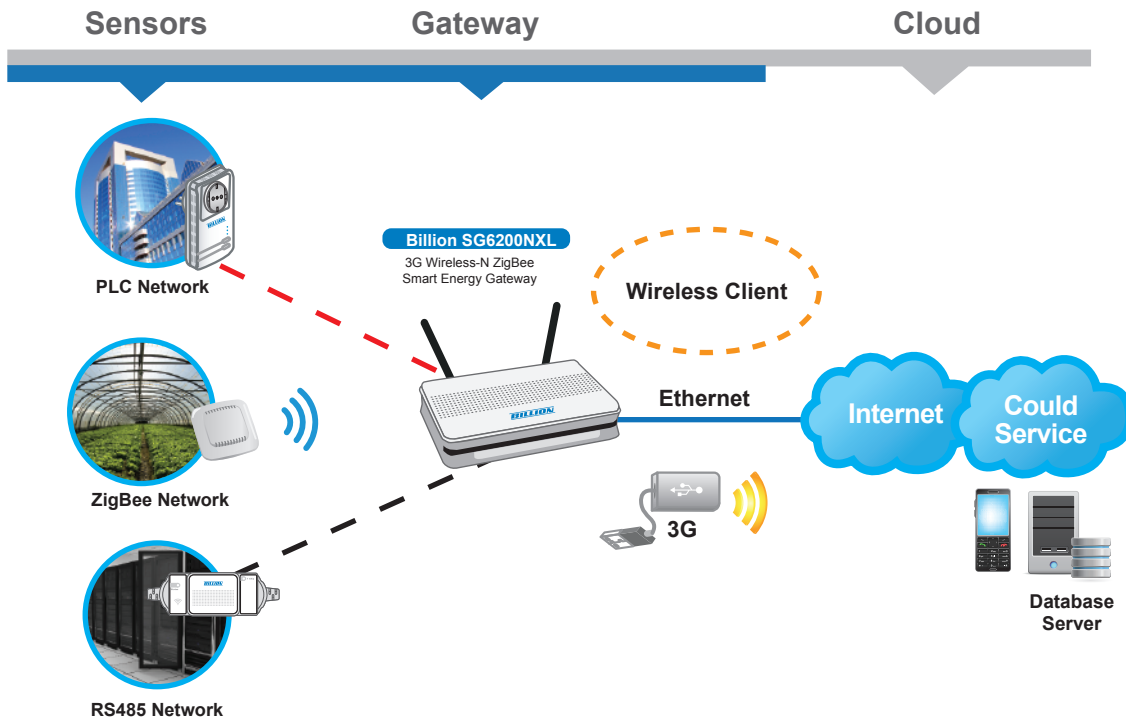


The Billion ZigBee SG3010-iCB can be installed in the EV charger and transfer data to the ZigBee smart energy gateway in order to manage the electrical consumption of EVs.

Build a Smarter Path to Home, I&C Energy Management



Smart IoT (Internet of Things) Platform





www.billion.com
www.smartgrid.com.tw

Company Quick Facts

Capital	USD 31 Million
Employees	700+ (Taiwan, China, and USA)
Initial Public Offer	Taiex #3027 since Jan. 19, 2000
R&D Laboratories	5 Labs (Taiwan and China)
Production Capacity	400,000+ units per month
Certification	ISO 9001, ISO14001, IECQ QC080000, TL 9000

Billion Products and Solutions



Communication Products



Smart Grid AMI Series



Power & Energy Management Products



Smart Home Series



Smart Lighting Solutions

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