

Billion SG7530

Broadband Powerline
Smart Lighting Wireless Bridge



When there is more than one segment of streetlights to be controlled, Billion's Broadband Powerline Smart Lighting Wireless Bridge (SG7530) links multiple segments of streetlights to one central controller by creating a broadband wireless network. The wireless bridge is an ideal use of transmitting device in smart lighting and smart city applications, serving as a bridge that connects different alignments of streetlights to one central Broadband Powerline Smart Lighting Segment Controller (SG7510).

Application Scenarios

The diagram indicates the system layout of Billion LCMS in BPLC (Broadband Powerline Communication technology). SG7530 bridges multiple segments of streetlights and transmits the lighting signals to one Billion Smart Lighting Segment Controller (SG7510). By doing so, it enlarges the lighting scope that can be managed. These streetlight segments and SG7510 are able to inter-communicate illumination status through their individually installed SG7530.

Overall, SG7530 not only has the ability to bridge different lighting segments to one central segment controller, but minimizes the operational cost of hardware and WAN network in order to build a smart city infrastructure.

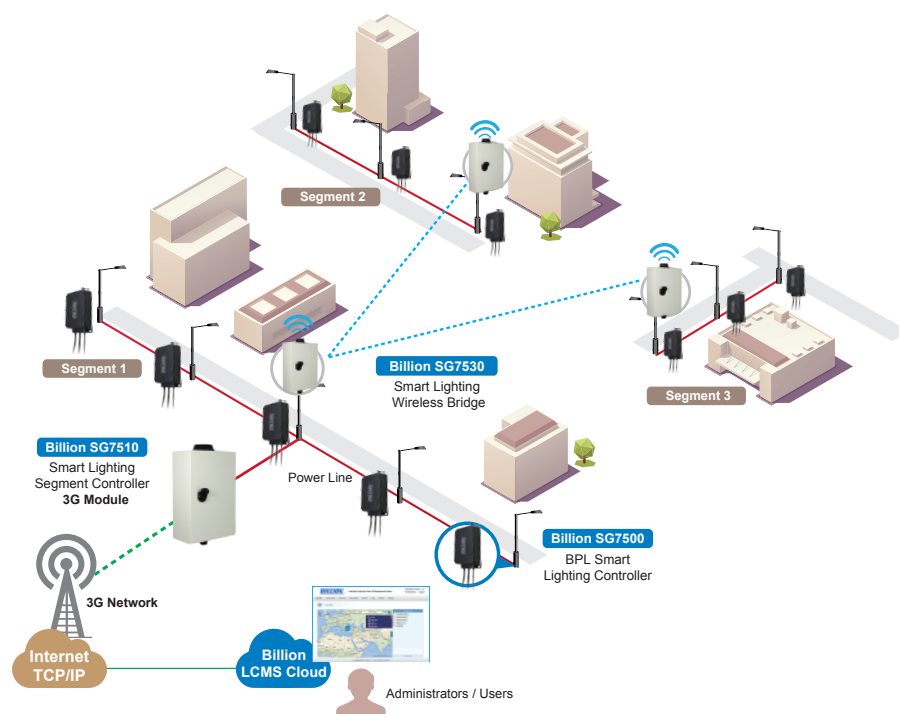


Diagram: Smart Lighting BPLC System Architecture (Multiple Segments)



Features & Specifications

Standard	Broadband over powerline
Carrier Frequencies	2MHz ~ 30MHz
Communication Technique	OFDM
Security	DES, 3DES data encryption
AC Input Voltage	Voltage: AC 100V ~ 277V , 50/60Hz
Wireless LAN	Compliant with IEEE802.11n, 802.11g and 802.11b standards 64/128 bits WEP supported for encryption Wireless security with WPA-PSK and WPA2-PSK support
Management	Web-based for remote and local management Firmware upgrades and configuration data upload / download via web-based interface
Power Consumption	12 Watt (Max)
Management	Web-based for remote and local management Firmware upgrades and configuration data upload / download via web-based interface System Log monitoring
Operating Temperature	-40 °C ~ 60 °C
Humidity	10 % ~ 95 %
Dimensions (L x W x H)	27.5 cm x 18.0 cm x 8.0 cm (with Mounting Flange)

*Notes: All the specifications are subject to change without prior notice.

V.12012016

Billion Electric Co., Ltd.

8F., No.192, Sec. 2, Zhongxing Rd.,
Xindian Dist., New Taipei City 231,
Taiwan (R.O.C.)

TEL: +886-2-2914-5665
FAX: +866-2-2918-6731, +886-2-2918-2895
E-mail: marketing@billion.com

www.billion.com