

**Billion SG1000****FTTH DC Uninterruptible Power Supply (UPS)**

As market demand for reliable and cost-effective IP telephony services heats up, telco and service providers are looking into offering IP telephony through a Fiber-To-The-Home (FTTH) architecture. The Billion SG1000 is a backup power system allowing service providers to sustain IP telephony services with high reliability and availability, unaffected by mains electricity outage.

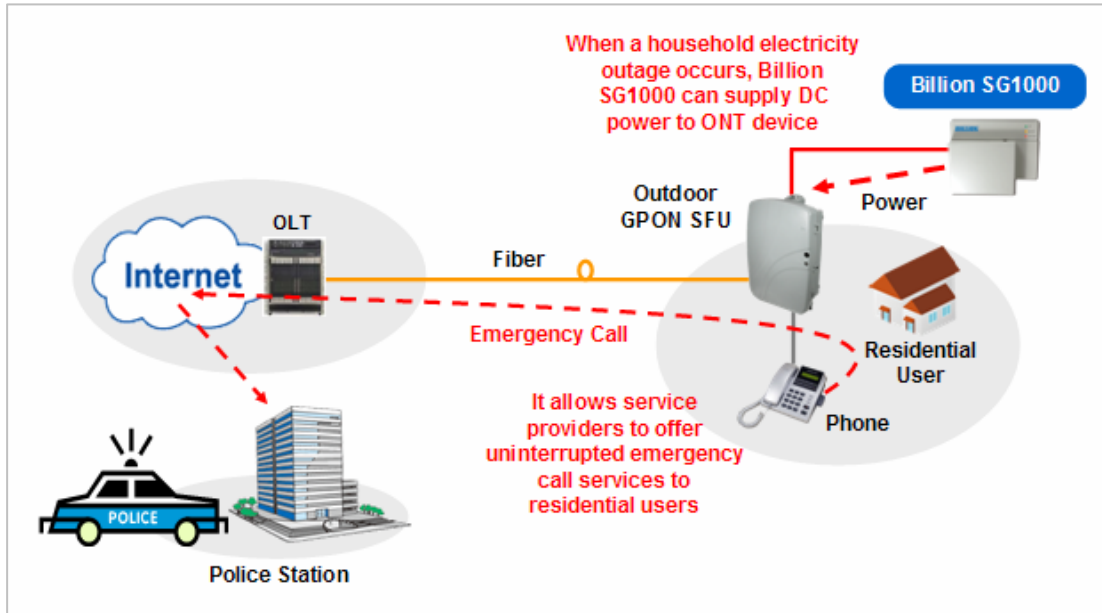
In addition to providing steady 12V DC, the Billion SG1000 has a built-in 8-hour battery to supply emergency power in case of city power failure. It also can be deployed in a SOHO / home office for uninterruptible Internet connection. The Billion SG1000 is perfectly fulfilling the requirements for GPON ONTs, EMTAs (Embedded Media Terminal Adapter), cable telephony modems, wireless base stations, and integrated access devices (IAD).

- Microprocessor-based intelligent control
- Universal input voltage
- Superior battery management for longest battery life
- Communication interface
- Optional extendable runtime
- User-friendly LED indicators
- Replace battery signal included
- Electronic overload and short-circuit protection
- Cold start capability
- Target for
 - ✓ Residential users
 - ✓ SOHO and home offices
 - ✓ Telco and Internet Service Providers
 - ✓ MSO (Multiple Service Operator)

Application Scenarios

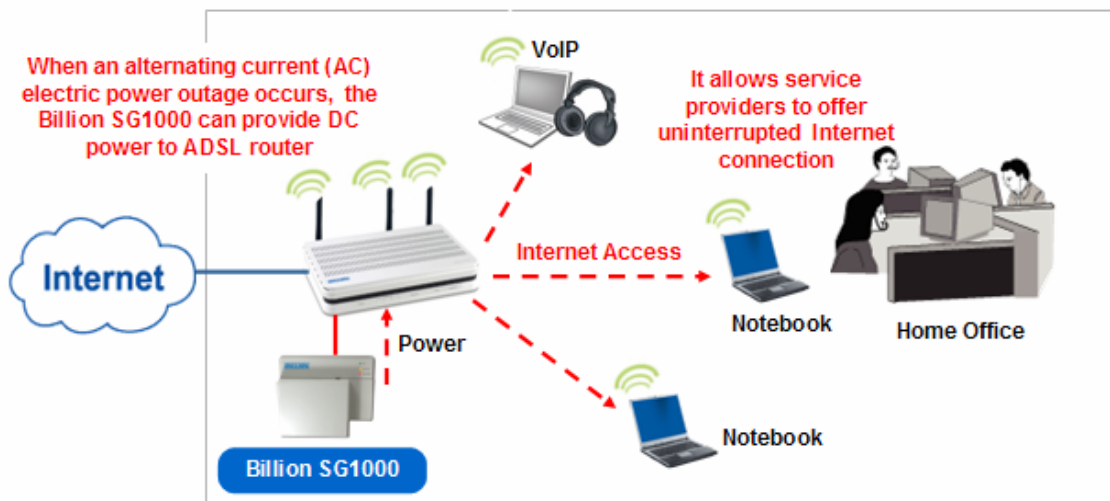
Local Powering Solutions for FTTH Applications

The Billion SG1000 delivers uninterruptible power to network communications over the optical fiber network. When there is a mains electricity outage, Billion SG1000 can provide DC power to ONT device allowing service providers to offer uninterrupted emergency call services to their customers.



Uninterruptible Internet Access for SOHO and Home Offices

SOHO and home offices always need uninterruptible Internet connection for their general operations. In many cases, they still can work seamlessly with their notebooks which have a battery inside. When a city power outage occurs, the Billion SG1000 can deliver power to the ADSL router and users can still enjoy the Internet services without any interruption.



Specifications

Output	Capacity	36W
	Voltage (on battery)	DC 12V +/- 15%
	Output LED	Green LED always light when active Green LED off when protection
Input	Voltage (single phase)	90Vac ~ 264Vac
	Frequency	47Hz ~ 63Hz
	AC LED (AC mode)	Green LED always light when AC active
	AC LED (On battery mode)	Yellow LED always light Yellow LED flash when low battery
Protection	Unit Input	Fuse for overload and short circuit protection
	Overload Protection	Overload protection and cut off output voltage
	Short Circuit	Short protection and cut off output voltage
Battery	Type (3 option type)	3.6Ah / 7.5Ah / 12Ah Sealed, maintenance-free lead acid batteries
	Typical Recharge Time	7 hours / 15 hours / 24 hours
	Back-up Time (load condition: 1.5A)	2 ~ 8 hours (depend on battery type)
	Protection	Shutdown when battery voltage drops below 10V Short protection by fuse
	Battery LED	Red LED light when Battery Missing Red LED flash when Battery needs to be Replaced Red LED off when battery normal
Signal	On Battery Signal	Low when operating from Utility Line High when operating from Battery
	Replace Battery Signal	Low when battery is charged operating from Utility Line High when battery fails the self test
	Battery Missing Signal	Low when battery is present High when battery is missing
	Low Battery Signal	Low when battery is near full charge capacity High when operating from a battery with < 20% capacity

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