

Zuli SmartPlug

The device: The Zuli SmartPlug is a smart adapter that allows the user to control any plug-in electrical device. At first glance, Zuli resembles a typical electrical adapter: just plug it in your socket at home and just connect the lighting system, ventilator, air conditioner or whatever appliance you want to control and monitor to the plug, but there's more than this.

Smart: The SmartPlug is embedded with a sensor which can measure energy consumption related to the connected appliance, and it can spot the presence of the user in the room where it is located using the Zuli Presence Technology, with the help of the Zuli Smartphone App. If 3 or more SmartPlugs are employed in the house, they can work together and determine the exact location of the user in the apartment. The App is the end-user interface, and allows to perform all the functionalities: monitoring, control and scheduling of the appliances.

Connectivity: Zuli communicates with the smartphone using Bluetooth Smart, a short-range wireless technology, in a direct fashion, without requiring a long setup before start using the device, and allowing to control multiple plugs from a single smartphone

Monitoring: The plug's sensors can monitor user's presence in the room and automatically adapt lighting and temperature settings to the preferred set-up. Also it can monitor the energy consumption in real-time, giving the user an estimation of the monthly energy bill based on actual energy prize and usage patterns.

Controlling: One interesting feature is that Zuli can dim lamps that don't even have a dimmer, directly using the app to regulate the level of brightness. In this sense the SmartPlug can work with Philips Hue SmartLight System. Talking about heating, Zuli can interwork with Nest thermostat, turning the temperature up and down wirelessly.

Optimization and Automation: If the user has certain habits during the day, through the app it's possible to apply a daily schedule for lights and appliances, so everything will be exactly set up as desired in an automatic fashion any hour of the day. Knowing the location of the user, the system will know when he left the apartment, and will switch off all the connected appliances accordingly.



The relevant part of this Smart Home solution is that the user is not required to have appliances and systems that are smart 'per se', it's Zuli that enables the Smart part of them, so it can be a Plug&Play, cost-effective solution for those willing to start employing a Smart solution for their home.