



About The Bert® Plug Load Management System

The Bert® Plug Load Management System is a powerful energy savings platform. Using your facility's existing WiFi network, individual Bert® smart plugs are controlled using the Bert® Brain 1000 software application.

By providing the ability to remotely schedule and control plugs within a individual facility or across multiple facilities, Bert® is a facility manager's best friend. The software application allows Bert® plugs to be logically grouped and scheduled by building, area, type of device, or other criteria. Multiple on/off commands can be scheduled for each day of the week across any individual Bert® plug or groups. Each Bert® plug contains a microprocessor, so the plug can hold its schedule in memory until it receives an updated schedule from the Bert® Brain 1000 software. In areas where Wi Fi coverage does not exist, Bert® can be preprogrammed with the same schedule used on other devices.

The Bert® Brain 1000 application also provides monitoring and reporting for all devices. Facility manager's even have reports that calculate energy savings based on the current or proposed schedules.



About Joliet Public School District 86

Joliet Public School District 86 serves over 11,000 students in 21 schools in the Joliet Illinois area. Like most districts, Joliet was looking for ways to reduce their energy usage while maintaining quality services for students and the community. Since the buildings are used heavily during weekdays but closed in the evening and weekend hours, Joliet saw a potential energy saving opportunity.

A facilities inventory by the district found a large number of electric devices, such as cooled water fountains and beverage machines, that consume electricity even when the building is unoccupied. The district realized that the Bert® Plug Load Management System could help reduce their energy use, by turning selected devices off and on according to a predetermined schedule.

Savings Analysis:

After conducting a facilities inventory, the District decided to focus on two common devices- cooled water fountains and beverage machines. These devices were chosen because not only are they numerous but they are large users of energy. Once the district calculated the savings based on the equipment manufacturer's specifications and the proposed schedule, the savings were large enough to qualify for rebate incentives from their local utility.

157 water fountains
x 660 kWh/fountain/year

+ 32 beverage machines
x 2565 kWh/machine/year

185,780 kWh/year
Estimated savings = \$18,570 per year



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Frequently Asked Questions:

How is Bert® different from a simple timer? Bert® can be scheduled remotely across multiple facilities from one central location. No adjustments are needed for power outages or daylight savings time.

What kind of network does Bert run on? Bert® operates on a facility's existing 802.11 Wi Fi network.

Is Bert® Patented? Bert currently has 2 patents and has several more pending.

Does Bert® have a warranty? Bert® has a one year warranty and extended warranty plans are available.

How much power does Bert® use? Bert® sleeps in between communication so it only uses a few microwatts of power

What is the voltage and current rating? Bert® is rated at 120 Volts and 15 amps.