

# Intelligent Power Management System

## for Municipalities and Businesses

### KEY FEATURES

- Complete self-sustained electricity management system
- Wireless connections among all SmartPower components
- SmartPower 10 appliance includes an independent power meter
- SmartPower 10 appliance includes an independent 60KW power switch
- SmartPower 10 appliance includes embedded radio module
- SmartPower 10 appliance supports relay of wireless signals
- SmartPower M100 allows management of thousands of SmartPower 10 devices with scalable management
- Open API Protocol that allows integration with any type of Power Management System (PMS).
- Secure software remote control to allow remote management of appliances

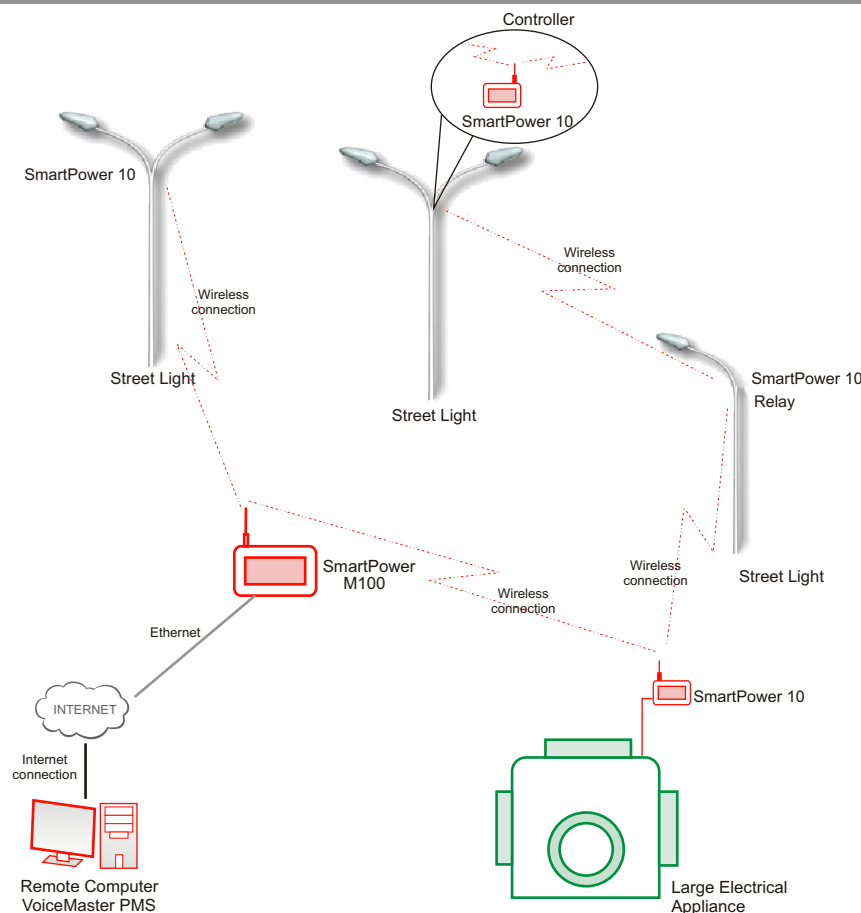
### Problem:

Many municipalities and large enterprises are trying to find a way to optimize their electricity consumption. They are looking for a way to remotely and automatically manage their electrical appliances and get information about their overall electricity consumption. The goal is to save money, and ultimately make their expenses lower, thus optimizing the bottom line.

### Solution:

Sysmaster SmartPower PMS offers a fully integrated solution to help businesses understand their electricity consumption and control it. The system includes all modules required for the achievement of this task and does not require any additional investments for wiring. The system can be managed locally or remotely and runs on Linux computers.

### BUSINESS POWER MANAGEMENT SYSTEM



### System Components:

- **SmartPower M100** is the ultimate system controller. It connects to a Linux PC computer via USB port. The device receives commands from the SmartPower Management Software to turn on and off appliances, and provides electricity consumption (power meter) data, that is recorded by the software and used for analysis purposes. The device also includes a Radio module that sends all signals to the underlying SmartPower 10 devices to read the meter reading data and send commands to the circuit controller.
- **SmartPower 10** is a circuit controller with 60KW capacity, integrated LCD power meter readout, and RS485 control interface. It is used for large electrical appliances, apartments, offices, and others.

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### Complete self-sustained electricity management system

Sysmaster SmartPower is a complete, integrated system for management of home or business electrical appliances. The system supports a centralized SmartPower M100. The SmartPower M100 controller is running a Linux software that allows management of the controller as well as all the SmartPower 10 appliances that this controller can access directly or via wireless hops. The SmartPower M100 controller can support hundreds of SmartPower 10 appliances using Wireless or RS485 connection.

### Wireless connections among all SmartPower components

SmartPower system includes wireless connections between the SmartPower M100 controller and the SmartPower 10 appliances. The wireless connection guarantees that there is no need to place expensive wires in the home or office. If wires are required, the controller can manage all appliances using the RS485 protocol (optional).

### SmartPower 10 appliance includes an independent power meter

SmartPower 10 appliances include one embedded power meter that will control power usage in real-time and report the data to the central controller. The power meter information then can be analyzed and graphically displayed by the users to provide power optimization alternatives. Meter data can be accessed and read in real-time.

### SmartPower 10 appliance includes an independent 60KW power switch

SmartPower 10 appliance supports one independent 60KW electrical power switch that will turn on and turn off power to the connected appliances in real-time. The users can select to turn on/off power based on time-of-day, user preferences, expected lack of utilization, and other parameters. This allows intelligent management of electrical appliances.

### SmartPower 10 appliance includes embedded radio module

SmartPower 10 appliance has embedded radio module and can manage one independent electrical appliance. The radio allows wireless data collection and commands execution without the need for wires.

### SmartPower 10 appliance supports relay of wireless signals

SmartPower 10 supports retransmission of wireless signals for up to 5 wireless hops. This function allows coverage of large areas using multiple SmartPower 10 devices.

### SmartPower M100 allows management of thousands of SmartPower 10 devices with scalable management.

SmartPower M100 is an advanced hardware controller that is connected to the network using Ethernet or Wifi connection. The SmartPower M100 runs Linux. The controller also connects to a large number of SmartPower 10 devices using a wireless connection to send commands and receive power usage data. The controller can also be managed by a remote connection to the PMS software and thus allow online management of the Voicemaster Power Management System (PMS). The radio coverage is 50m in closed spaces and over 300m in open spaces with a direct line-of-sight. In addition, the SmartPower can receive remote commands and provide data collection services to a central Voicemaster Power Management System (PMS).

### Open API Protocol that allows integration with any type of Power Management System (PMS).

SmartPower M100 supports open, user-friendly API software interface to allow control of the SmartPower devices. The software API allows users to develop their own power management algorithms or use their own PMS to control the SmartPower 10 devices.

### Secure software remote control to allow remote management of appliances.

Sysmaster PMS offers user-friendly software to allow control of the SmartPower devices. The software allows users to configure and schedule turn off/on of electrical appliances and read the power usage data in real time. The software can also be used remotely, using a remote Web login.



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