# eCommander *(* ( **Energy Management Controller**



#### Introduction

The eCommander is an Energy Management Controller that helps manage energy usage. The device provides a rich set of features such as the ability to communicate directly to a PLC based utility meter, monitor energy consumption, and control appliance modules. All communication between the eCommander, appliances and meter is performed using the existing powerline infrastructure -- requiring no extra cabling.

#### eCommander Device



#### **Special Features for Utilities**

- Remote commissioning of eCommander
- Ability to send messages to customer
- Ability to receive messages from customer (i.e. Opt in/Opt out)
- Secure encrypted communications
- Multiple access methods (WiFi and PLC)
- Flexible enough to incorporate other technologies
- One to one pairing with Meter
- Ability to Load Control within the home
- Ability to update via WiFi
- Supports different languages (English, Swedish and Finnish)]
- Ability to set the profiles to control the devices in a single touch

#### **Features Overview**

- View energy and cost data in real time over time
  - Monitor current, past and estimated power
- Chart energy usage
  - 13 month Historical data stored
  - · Perform comparisons
- Receive alerts
  - From utility
  - · Based on energy targets
  - High consumption
- Connect to the Internet via WiFi
- Control lights/appliances connected to load control modules
- View energy for lights/appliance connected to load control modules
- View and Control remotely through internet and rich web interface
- Schedule On/Off of light/appliances
- View weather information
- Allows to control RF bulbs
- Use eCommander for more than energy
  - Alarm Clock
  - Internet Radio

#### eCommander SmartPlug



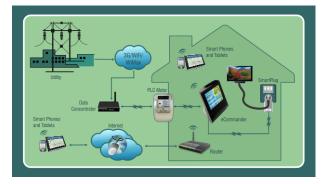


Perform Demand Response with eCommander & SmartPlug





#### In Grid Architecture



## eCommander User Interface

The eCommander homepage shown below.

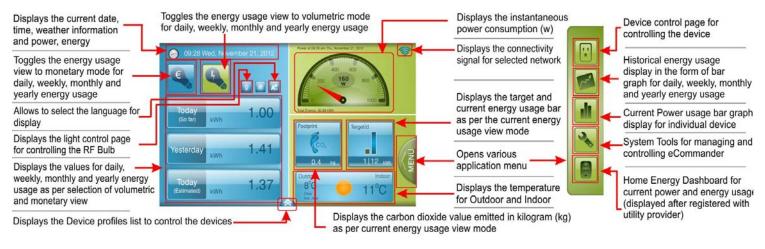


## Web and Mobile Interface

The eCommander can be connected wireless to your iPhone and other WiFi enabled devices allowing you to control your appliances from any remote location.



## Homepage Walk Through



## eCommander Technical Specifications

Model Number: SLS-REM-700

#### **1. Electrical Specifications**

Input Voltage Range	90 to 277 VAC +/- 10% - Single phase
Input Frequency	50 or 60Hz
WiFi communication	802.11b/g - 2.4 GHz
RF Communication	2.4 GHz
RF power	6dB = 3.9mW
Power Line communication frequency	Dual frequency – 115kHz & 132kHz

## 2. Display & Processor Specifications

Display	7 inch (178 mm) touch screen
Processor	800MHz Processor (AML8726-M3)
Memory RAM/Flash	256MB/4GB
Operating System	Linux
Display Graphics	Custom GUI
Battery type	3.7V 1000mA

## 3. Mechanical Specifications

Weight	500 grams
Power Plug	US/European/Chinese Cable
IP rating	In-home use
Size (L x W x H – length, width, height)	185 x 210 x 90 mm

## 4. General Specifications

Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to +60°C
Operating Humidity	10-80% RH @ 40°C (non condensing)
Storage Humidity	5-95% RH max @ 40°C (non condensing)
Shock	30g @ 11ms; 100g @ 3ms (half sine)
EMC	ETSI EN 301 489-1 V1.9.2, ETSI EN 301 489-3 V1.4.1, ETSI EN 301 489-17 V2.2.1
WiFi Compliance	Yes
RF Standards	ETSI EN 300 328 V1.7.1, ETSI EN 300 440-2 V1.4.1.

For more detailed information visit http://energy.slscorp.com or send us an email to energy@slscorp.com