eCommander

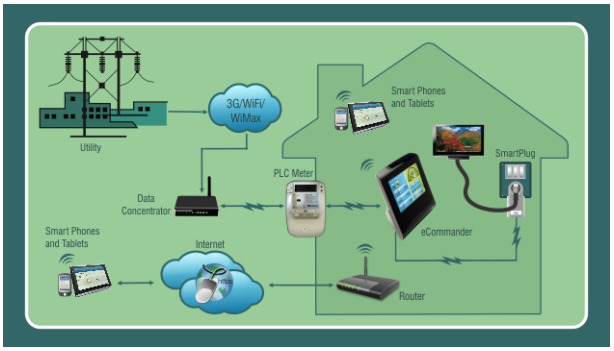
Energy Management Controller

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

In Grid Architecture



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

eCommander User Interface

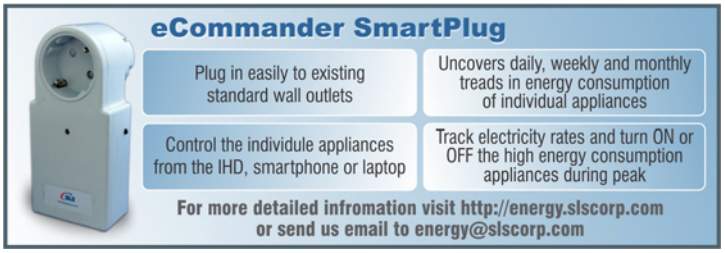
The eCommander homepage shown below.

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

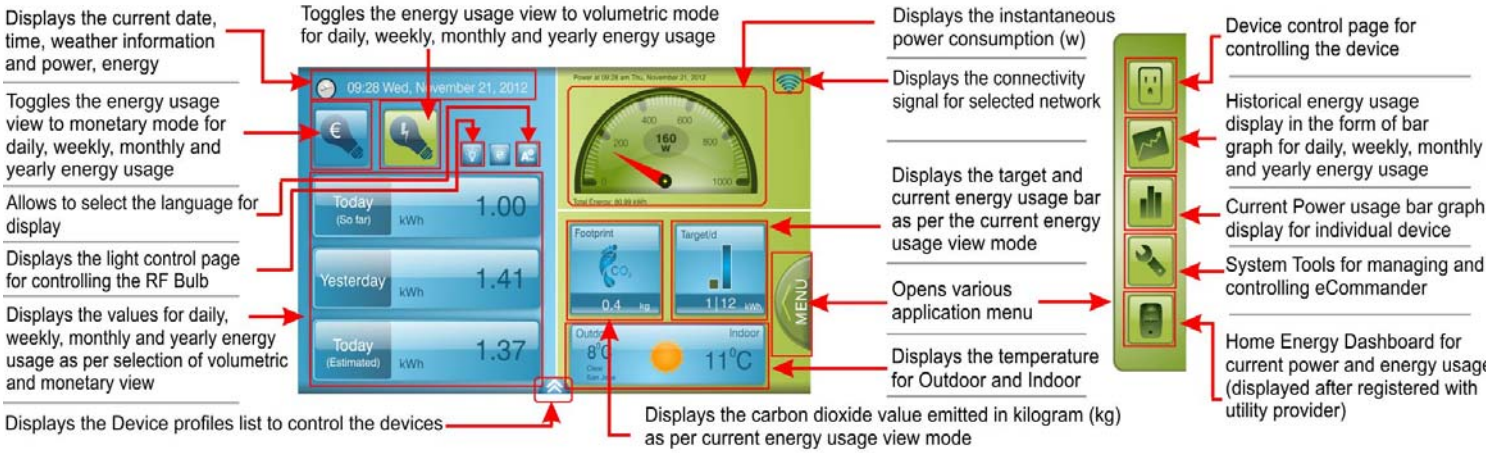
Web and Mobile Interface

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



Smart Homes have Smart Energy Management Controller

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

System Level Solutions
14100 Murphy Avenue, San Martin, CA 95046
India Office: 32, D4, Phase 1, G.I.D.C Estate, Vithal Udyog Nagar-388 121. Gujarat.
Tel.: 91-2692-232 501 / 502 • Fax: 91-2692-232 503 / 1-408-856 2469
Email: info@slscorp.com • Website: www.slscorp.com