

The eCommander is a Smart Energy Manager that works on managing the electricity consumption at your home. The device acts as a communication medium between your energy meter, appliances and the energy supplier.

eCommander provides two important functions. First, as an In-home display with residential energy management and controls solution. Second, as a software and hardware bridge to control and monitor smart devices on any PC or Smart Phone via a web interface. Add additional applications by remote upgrade.

All communication between the eCommander, appliances and meter is performed using the existing powerline infrastructure -- requiring no extra cabling.

eCommander Device

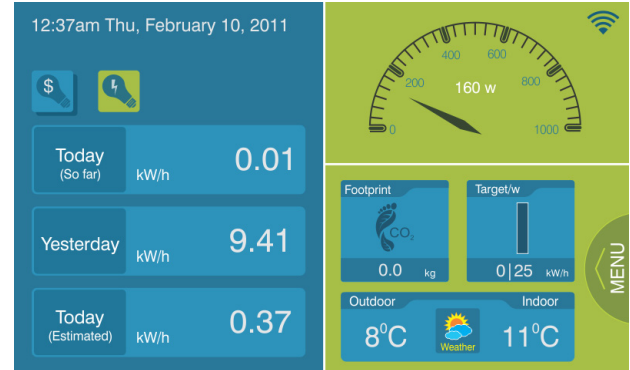


Features and Benefits

- 7" Touch Screen interface
- Reduce Carbon footprint by connecting to your utilities
- View **energy** and Cost data in real-time and over time
- Manage energy remotely via smart phones and tablets
- **Plug & Play** installation
- Reduce Carbon footprint with monitoring and action
- Setup up Targets
- Connects to home wireless network
- Monitor power usage and energy trends
- Monitor current, past and estimated power or cost usage
- Saves 1 year of data from meter and 50 load control modules
- It pays for itself in matter of months with energy savings
- Optionally, provide access to utility for demand response application to get lower electricity rates
- Updates over the internet
- Add Load Control Modules(LCM) to monitor individual appliance load. Load Control Modules are the extensions that can communicate with the eCommander

eCommander User Interface

The eCommander can be controlled using the user interface software in-built into the device as well as using the web interface software from a remote location. The homepage looks like the one in the picture shown.



Software Features

Features available in the software are listed below.

Appliance Control/Monitoring

- List the appliances location wise i.e. drawing room, kitchen, reading etc
- Turn on/off the appliances remotely using eCommander
- View individual power consumption
- Add/edit appliances
- Control brightness and power consumption of individual appliances

Date, Time and Weather

- Set the current date and time
- View current weather and its forecast

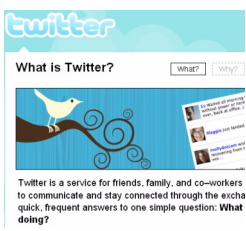
Energy Consumption Details

- View power consumed in selected time duration (hours, days, months etc.)
- View power consumed appliancewise

Communication

- Edit your location details (zip code and others)
- Configure communication options for the remote location
- Configure communication with individual appliances connected

The eCommander incorporates Echelon's technology to manage residential energy consumption for the utilities and their customers.



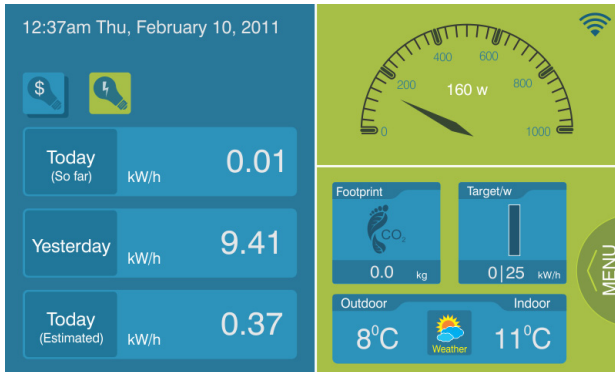
Upcoming Features

- Twitter
Have your eCommander send out status updates to your friends on Twitter
- Internet Radio

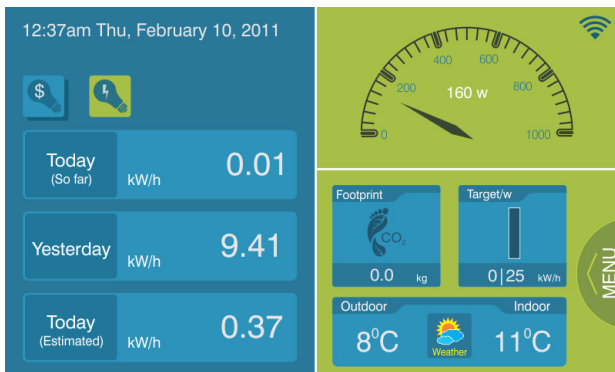
Smart Homes have Smart Energy Management

It uses two communication networks, Power line and (Wi-Fi) Wireless communications, into one network for the Smart Devices in the home. It is simply plugged into any power socket in the home and connects to home wireless network if available.

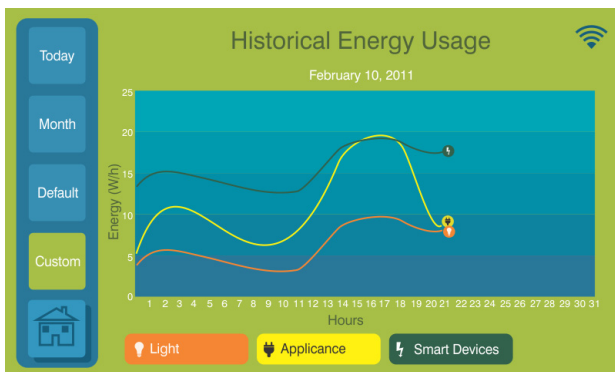
Take control of your energy use. With eCommander plugged in you can view the daily, weekly and monthly current energy consumption and power usage. You can view the estimated daily, weekly and monthly energy consumption based on current energy consumption and power usage. Energy consumption displays the information about target and current usage. As well as carbon footprint on the homepage.



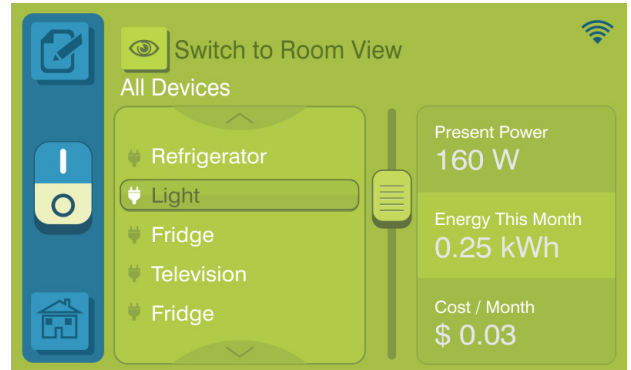
Receive Weather forecast. View the information about the weather in your area, temperature. The information about indoor temperature is measured using a thermostat.



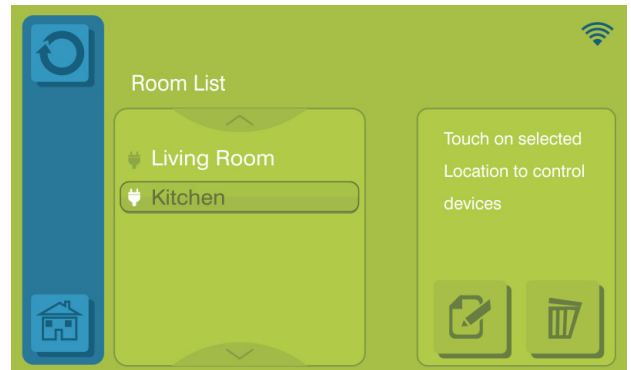
Know your bills. Feed the per unit energy charges in the eCommander and you can get the billed energy usage everyday, every week or whenever you would like to know.



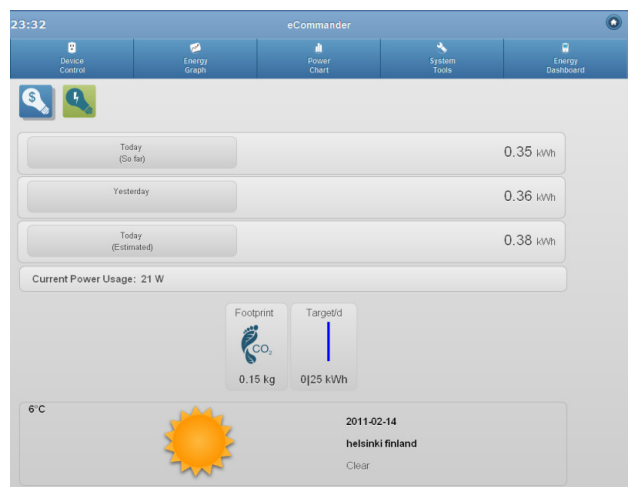
Add Load Control Modules to monitor individual appliance load. You can view the individual power consumed by the appliances connected. Depending on the information you can turn the devices ON or OFF. You can also set the schedule for the any devices.



Appliances at different rooms in your house. Location wise appliance information can be fed into the eCommander and you can view the power consumption individually. You can also turn the appliance ON and OFF remotely.



Manage energy usage from long distance or the couch using the web based and mobile application. The eCommander can be connected wireless to your iPhone and other WiFi enabled devices allowing you to control your appliances from any remote location.



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
Power Line communication frequency	Dual frequency – 115kHz & 132kHz
RF power	100 mW

2. Display & Processor Specifications

Display	7 inch (178 mm) touch screen – 24 bit color
Processor	MIPS, 336MHz
Memory RAM/Flash	128MB/512MB
Operating System	Linux
Display Graphics	Custom GUI
Battery type	N/A

3. Mechanical Specifications

Weight	500 grams
Power Plug	US/European 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)
Drop test	TBD
Shock	30g @ 11ms; 100g @ 3ms (half sine)
EMC	FCC Part 15 Class B
Agency Listing	UL 60950, cUL C22.2 No. 60950-00, CE
WiFi Compliance	FCC Part 15 C

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