

Nucleus™ energy manager

Dimensions and Installation Information

Electrical Rating:

Input voltage.....100-240VAC/50-60Hz
 Input Watts (max).....3.5W

Plug.....Right Angle

Features

LED Status Lights

- Power On
- WiFi Status
- Energy Network 1 Status (ZigBee® from meter)
- Energy Network 2 Status (ZigBee to devices)

Memory/Data Device On-Board Storage

- 30 days @ 1 min; 3 yrs @ 1 hr
- Demand Events

WiFi 802.11b/g compatible

- 1 WiFi radio for in-home LAN 802.11b/g

ZigBee Compatible Radio Receiver...Yes - 2 SEP 1.0

- 1 ZigBee radio for utility ESI 802.15.4 SEP 1.0
- 1 ZigBee radio for HAN 802.15.4 SEP 1.0

Ethernet Connection.....RJ45 connector

- 1 Ethernet port for in-home LAN 802.3

Nucleus Configuration

- CD-rom-PC configuration (MAC and/or PC)

Installation Information: Before installing, consult installation instructions packed with product.

Requirements

Utility meter: AMI

Broadband connection with router required for software updates and for simultaneous access to internet and Nucleus (wireless router recommended 802.11b/g).

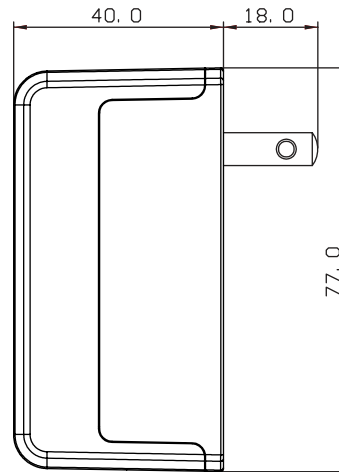
Computer (MAC or PC)

Standards

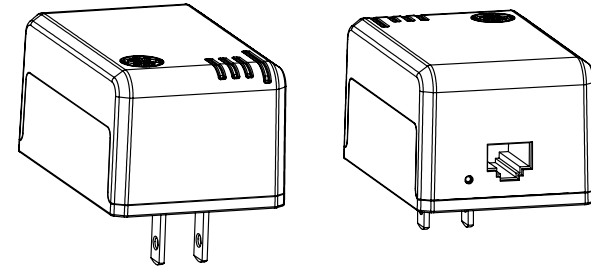
ZigBee SEP 1.0 certified

FCC certified

ETL listed



measurements in millimeters



Operating System Requirements:

	Windows	Macintosh
Processor	Minimum: Intel® Pentium® III 1 GHz or faster Recommended: Pentium® 4 2 GHz or faster	Intel Core™ Duo 1.83 GHz or faster
Operating System	<ul style="list-style-type: none"> • Windows Vista Home, Business • Windows Vista SP1 • Windows XP tablet PC Edition and SP3 • Windows XP and SP3 • Windows 7 	Mac OS 10.4, 10.5, or Mac OS 10.6 (Snow Leopard)
RAM	Minimum: 512 MB RAM Recommended: 1GB RAM	Minimum: 512 MB RAM Recommended: 1 GB RAM

Internet Browser Requirements

- Internet Explorer 8
- Chrome 4
- Safari 4
- Firefox 3.6.8

Software Requirements

- Adobe AIR version 2.3 or newer

Wireless Network Requirements

- In order to access the Nucleus energy manager via wireless network, the computer must have a 802.11b/g compatible wireless adapter

Nucleus™ energy manager

Features and Benefits

- Acts as the "central nervous system" for monitoring in-home electrical usage
- Shows real-time (kW) and long-term (kWh) data on power consumption
- Accumulates daily/monthly/yearly historical trends up to a span of three years
- Designed to adapt to expanding smart grid technology through online software enhancements
- Connects the in-home smart energy network directly to a PC through an ethernet connection or through an internet broadband router (cable-modem, DSL-modem, wireless, etc.)
- Operates in conjunction with local electricity providers' smart energy programs, where available
- LED lights indicate various functions/connections
- 6' Ethernet cable for connectivity to PC or home broadband router
- Data is available via PC application and will be designed for iPhone app
- Estimated availability third quarter 2011

Preliminary

