

Product Brief ZOE-RE Model #5010R



Smart Energy HAN Range Extender

This easy to install adapter plugs into a standard power outlet and extends the distance covered by devices in a Smart Energy (SE) Home Area Network (HAN). The device acts as a ZigBee mesh router that not only extends the range of the network, but adds redundancy as well. The built-in high power ZigBee SE certified radio joins the SE network as a ZigBee Pro router and then facilitates the joining of devices that may not be within range of the Energy Service Portal (ESP—usually the smart meter.) Use of the ZigBee™ SE Profile ensures compatibility with the emerging standards for smart homes/buildings being deployed around the world.



Benefits

- Reliably extends the network coverage of a typical HAN
- ZigBee Smart Energy certified. Compatible with any ZigBee device that bears the ZigBee Energy logo.
- Small size and convenient connectivity means easy retrofitability and low installation cost.
- Safety tested to UL and CSA standards.
- Cost-effective, self-contained design allows placement virtually anywhere a regular power outlet exists.

SPECIFICATIONS:

Electrical

Operating Voltage:	95—270 VAC
Operating Frequency:	47-63 Hz.
Antenna:	Internal
Transmit power output:	20 dBm
Surge protection:	MOV rated for 300V

Mechanical

Size:	4.0" L X 2.5" W X 1.5" H
Weight:	4.1 Oz.
Mounting:	Through 3-prong plug

Environmental

Temperature:	-20—40 °C (-13—122 °F)
Humidity:	5—90 % RH (non-condensing)

OTHER SPECIFICATIONS:

Indicators:	LED: Multi-function to indicate network status, joining mode, fault conditions, etc.
Local Control:	Multifunction pushbutton. Used for joining network and permit joining.
ZigBee™ function:	Manufacturer ID: 0x1075; ZigBee Router

SE Profile: (0x0109)		Device ID: 0x0008		Range Extender	
Cluster ID	Cluster Name	Client/Server	Cluster Description		
0x0000	Basic	Server	Attributes for determining basic information and setting and enabling device		
0x0001	Power Configuration	Server	Attributes about the power source and for configuring under/over voltage alarms		
0x0003	Identify	Client/Server	Attributes and commands for putting a device into Identification mode		
0x0800	Key Establishment	Client/Server	Attributes and commands necessary for managing secure communication between ZigBee devices		