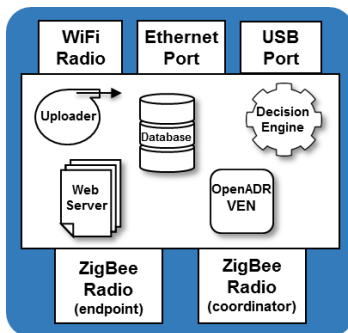


EAGLE-200™ Intelligent Control Gateway



The EAGLE-200 Energy Access Gateway Link to Ethernet product is an intelligent grid edge device that acts as a bridge between Zigbee wireless networks and an Internet Protocol (IP) network. It connects directly to the Local Area Network (LAN), using either Ethernet or WiFi, allowing it to leverage the existing broadband connection. An internal database buffers data locally to eliminate data loss during network outages.

The EAGLE-200 supports two simultaneous Zigbee wireless networks:

Utility HAN: Communicating directly with a smart meter equipped with Zigbee Smart Energy wireless capability, the EAGLE-200 is an endpoint on the Home Area Network (HAN) formed by the utility meter. It gathers real-time smart meter data to send to the internet cloud. There is also has an uploader that can automatically stream real-time data to any cloud service using a simple REST API.

Control Network: The EAGLE-200 is also the Coordinator of its own independent Zigbee network that allows it to control Zigbee devices in the building. An onboard OpenADR 2.0b Virtual End Node (VEN) allows the EAGLE-200 to communicate directly with utility Demand Response Management Systems (DRMS) for direct load control programs. There is also a native REST API that enables control functions to be accessed via the Rainforest Cloud web portals. This architecture gives building occupants the ability to remotely control and monitor their controllable loads, and can also be used for event overrides and user opt-outs.

Specifications

Software Requirements	User Interaction: Web Browser, iOS app, or Android app Demand Response: HTTP REST API; optional OpenADR 2.0b support
Internet Connectivity	Ethernet, WiFi, or Cellular (with optional USB dongle)
Zigbee Wireless Link	IEEE 802.15.4 MAC, 2.4GHz ISM Band Receiver sensitivity: -99dBm, Transmit Power: +20dBm
Zigbee Wireless Range	Up to 50m (150ft) (highly dependent on usage environment)
Zigbee Standards	Zigbee Smart Energy Profile 1.1, Zigbee Home Automation 1.2
WiFi Wireless Link	IEEE 802.11n, 2.4GHz ISM Band Receiver sensitivity: -90dBm (1Mbps), Transmit Power: +18dBm (802.11b)
Ethernet Link	10/100Base-T, RJ-45 connector
Upgrade Path	Field upgradable firmware over the internet
Expansion	USB 2.0 port for additional interfaces
API Support	HTTP REST interface for control and monitoring (local and cloud)
Power	External AC adapter (included)
Operating Temperature	0°C to 50°C (indoor use only)
Storage Temperature	-10°C to 60°C
Dimensions	90mm x 95mm x 30mm
Weight	120g (not including AC Adaptor)
Warranty	One year

Ordering Info

RFA-Z114-Z2 EAGLE-200 Control Gateway



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