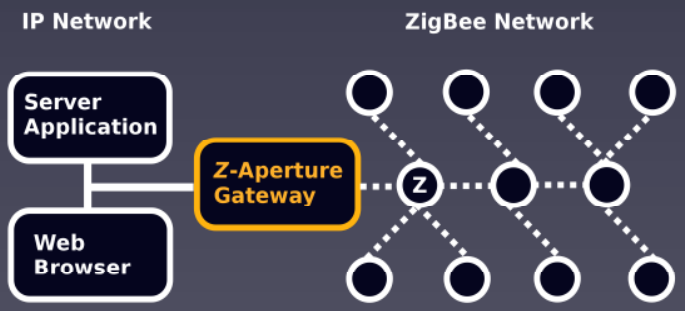
alektrona

# Z-Aperture™ Series

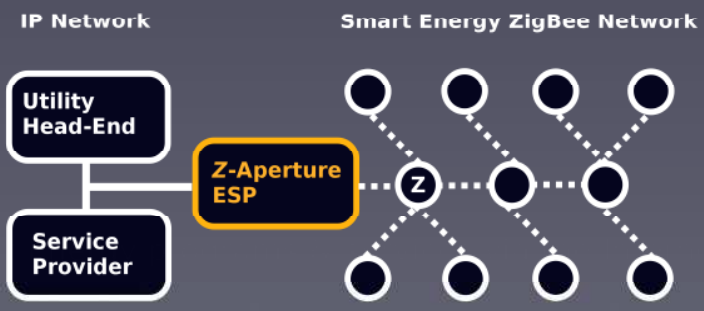
***Enabling Smart Energy and Wireless Sensor Network services***

## Overview

Use the ZA07-200 to access any device on any ZigBee network from your intranet or over the Internet using ZigBee Gateway Device web services. Typical uses include management, commissioning, data acquisition, control, and testing.




The ZA07-200-ESP adds Smart Energy Service Portal capability to the robust and flexible Z-Aperture architecture, enabling energy management programs and services and the capability to aggregate meter farms.




## Features & Benefits

| | |
|---|---|
| • **Energy Service Portal** | Provide Smart Energy programs & services via the Internet |
| • **ZigBee Web Service API** | Develop applications for sensor networks on any platform |
| • **Enterprise Class Security** | Maintains the safety and integrity of your networks |
| • **DHCP, SSH, NTP, CLI** | Intergrates with existing management infrastructure |
| • **Flexible Startup Modes** | Adapts to your ZigBee topology & commissioning scheme |
| • **High Power Radio w/LNA** | Increases range and minimizes connectivity issues |
| • **Power Over Ethernet** | Install in plenums and other locations without AC power |
| • **Real Time Clock** | Timestamp critical events and schedule automatic actions |

# Z-Aperture™ Series

**ZA07-200**
**ZA07-200-ESP**

The Z-Aperture™ ZA07-200 ZigBee® IP Gateway is an essential infrastructure component that connects BMS, SCADA, and Internet applications to ZigBee networks. A standards-based SOAP API allows you to develop or extend applications to interface with any PAN or device.

The ZA07-200-ESP ZigBee Energy Service Portal extends the robust and flexible Z-Aperture architecture to support Smart Energy service programs provided by utilities, energy retailers, and energy management companies. Sophisticated localized intelligence enables support of meter farms through the Smart Energy mirroring interface.

Your investment is safe since the Z-Aperture series is easily network upgradeable and will track compliance with the ZigBee Gateway Device standard. OEM requirements can be realized through hardware and software customization services.

## Typical Applications

**Permanent Infrastructure**
Smart Energy Service Portal
BMS, SCADA, and Internet connectivity
Commissioning & maintenance
Remote access

**Development Tool**
Simulate Smart Energy and other device profiles
Test your sensor hardware & firmware
Development & test automation
Production testing

## Features

**ZigBee**
IEEE 802.15.4 2.4GHz 18dBm (PA & LNA)
External Omni-directional Antenna
Configurable Device Type

**Interfaces**
10/100 Mbps Ethernet
RS-485 Terminal Block
2x RS-232 Console & Device

**Power**
DC Power Jack, External Supply
DC Terminal Block
Power Over Ethernet (PoE) IEEE 802.3af
Battery Backed Real Time Clock

**Software**
Web Service Interface (SOAP-RPC)
Command Line Interface (CLI)
Network Upgradeable Software
Network Time Protocol (NTP)
Dynamic Host Configuration Protocol (DHCP)
Secure SHell (SSH)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