

EKI-6333AH-1FPO Series

IEEE 802.11 ah Wi-Fi HaLow Outdoor AP/Client



Features

- IEEE 802.11ah (Wi-Fi HaLow) with extended coverage and superior penetration
- Supports data rates from 150 Kbps to 15 Mbps, ideal for sensor and data-intensive use cases
- Mast-mount enclosure with robust performance for harsh environments
- Supports passive PoE (12–36V) and optional 802.3af/at for easy installation
- Linux-based system with full SDK support for customization and integration
- IP67 waterproof certification

Introduction

EKI-6333AH-1FPO using 802.11ah Wi-Fi HaLow technology in the sub-1 GHz band. Compared to traditional 2.4GHz and 5GHz Wi-Fi, HaLow offers superior range, lower power consumption, and better penetration through walls and obstacles, making it ideal for rural deployments, smart agriculture, factory monitoring, and IoT sensor networks.

EKI-6333AH-1FPO supports Fast Ethernet with standard 802.3af/at PoE, allowing both power and data to be delivered through a single cable for simplified installation. Its N-female antenna connector offers flexible external antenna options to optimize range and signal direction.

EKI-6333AH-1FPO is built to withstand harsh weather conditions, dust, and moisture—perfect for demanding outdoor environments.

Specifications

Ethernet Communications

- **Port Type** RJ45
- **No. of Ports** 1
- **Fast Ethernet with ESD protection**

Wireless LAN Communications

- **Frequency** 915 MHz (US)
866 MHz (EU)
924 MHz (JP)
922 MHz (KR)
920 MHz (TW)
- **Speed** 15 Mbps (Peak data rate)
- **Network Mode** AP/Client
- **Free Space Range** Open space 5km

Software

- **Operation Modes** Access Point mode, Client
- **Configuration** Web Browser

Antenna

- **Antenna connector** 1x Type-N

Mechanics

- **Enclosure** Plastic
- **Mounting** Pole
- **Dimensions (W x H x D)** 45.64 x 176.38 x 39.61 mm
- **Weight** 0.125kg

General

- **LED Indicators** 1x power/status
1x LAN activity
1x WLAN TX
1x WLAN RX

Power Requirements

- **Power Input** PoE (12-36 V DC) input
Support for optional 802.3af/at standard module
- **Power Connector** RJ-45

Environment

- **Operating Temperature** -20 ~ 60°C (-4 ~ 140°F)
- **Storage Temperature** -30 ~ 80°C (-22 ~ 176°F)
- **Operating Humidity** 10 ~ 95% RH

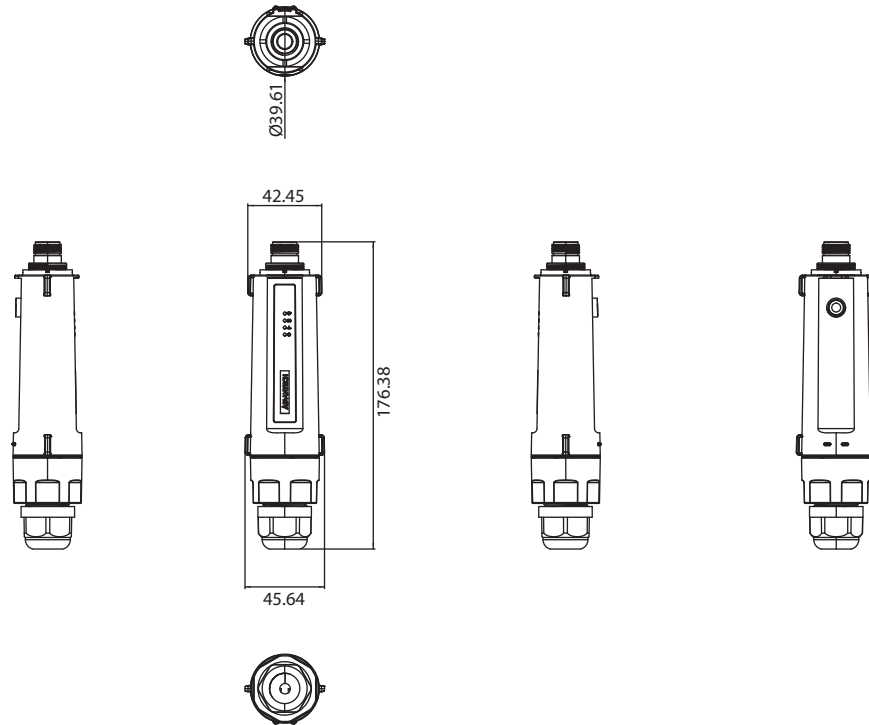
Regulatory Approvals

- **EMC** CE, FCC Part 15 Subpart B

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Dimensions

Unit: mm



Applications

- Smart Agriculture
- Remote IP Camera
- Long-Range Sensor Gateway
- Industrial IoT Monitoring
- Smart Cities
- Forest environment monitoring
- Coastline environment monitoring
- Mining monitoring

Ordering Information

- **EKI-6333AH-1FPO-NA** 802.11ah Wi-Fi HaLow Outdoor AP/CPE (US Power cord include)