EKI-6333AC-2G Series

IEEE 802.11 a/b/g/n/ac Wi-Fi AP

Features

- Supports 802.11ac MIMO 2x2
- WLAN transmission rate up to 1167 Mbps
- Supports secure access with WEP, 802.1x, WPA/WPA2-Personal, WPA/WPA2-Enterprise
- Provides Web-based configuration
- Supports dual bands 2.4/5GHz concurrent
- IP55 waterproof certification

Introduction

The EKI-6333AC-2G is a feature-rich wireless AP providing reliable wireless connectivity for industrial environments. The PoE injector enhances flexibility in deployment of this AP even where the DC power supply is hard to fulfill. As a 802.11n compliant device, EKI-6333AC-2G provides a data rate that is six times higher than legacy 802.11g devices.

With the support of STP, WMM and IGMP snooping protocols, EKI-6333AC-2G improves the reliability of wireless connectivity, especially in applications requiring high reliability and throughput data transmission. To secure the wireless connection, EKI-6333AC-2G implements the latest encryption technologies, including WPA2/WPA/802.1x for powerful security authentication.

Specifications

Ethernet Communications

- **Port Type** — RJ45
- **No. of Ports** — 2
- **Speed** — 10/100/1000 Mbps

Wireless LAN Communications

- **Compatibility** — 2.4GHz: IEEE 802.11 b/g/n
  5GHz: IEEE 802.11 a/n/ac
- **Speed** — 5GHz: 867Mbps, 2.4GHz:300Mbps (Max)
- **Network Mode** — Infrastructure
- **Free Space Range** — Open space 100 m
- **Wireless Security** — WEP, WPA/WPA2-Personal, WPA/WPA2-Enterprise

Software

- **Management** — Telnet, FTP, SNMP, Web UI, SSH
- **Wireless** — Radio on/off, WMM, Output Power Control, Beacon Interval, RTS/ CTS threshold, DTIM Interval
- **Operation Modes** — Access Point mode, Client, Repeater
- **Configuration** — Web Browser
- **Protocol** — ARP, ICMP, IPv4, IPv6, TCP, UDP, DHCP Client, DHCP Server, Auto IP, Telnet, DNS, SNMP, HTTP, DMZ, PPPoE, VPN Passthrough, Telnet Server, SSH Server, FTP Server, QoS

Antenna

- Default with 4 x external 5 dBi Omni antenna
- 4 x Reverse SMA connectors for SMA antenna

Data Rates

- **802.11b** — 11M, 5.5M, 2M, 1Mbps
- **802.11a/g** — 54M, 48M, 36M,18M, 12M, 9M, 6Mbps
- **802.11n** — HT20 MCS0~15 / HT40 MCS0~15
- **802.11ac** — VHT80 MCS0~9

Mechanics

- **Enclosure** — Plastic
- **Mounting** — Wall, Pole
- **Dimensions (W x H x D)** — 191.6 x 114.3 x 47.7 mm (7.54" x 4.49" x 1.88")
- **Weight** — 0.5kg

General

- **LED Indicators** — System: Power
  WLAN: Link/Active
  LAN: Link/Active

Power Requirements

- **Power Input** — DC 24 V / 1A; POE Adapter 100 V ~ 240 V
- **Power Connector** — RJ45, Passive 24V PoE
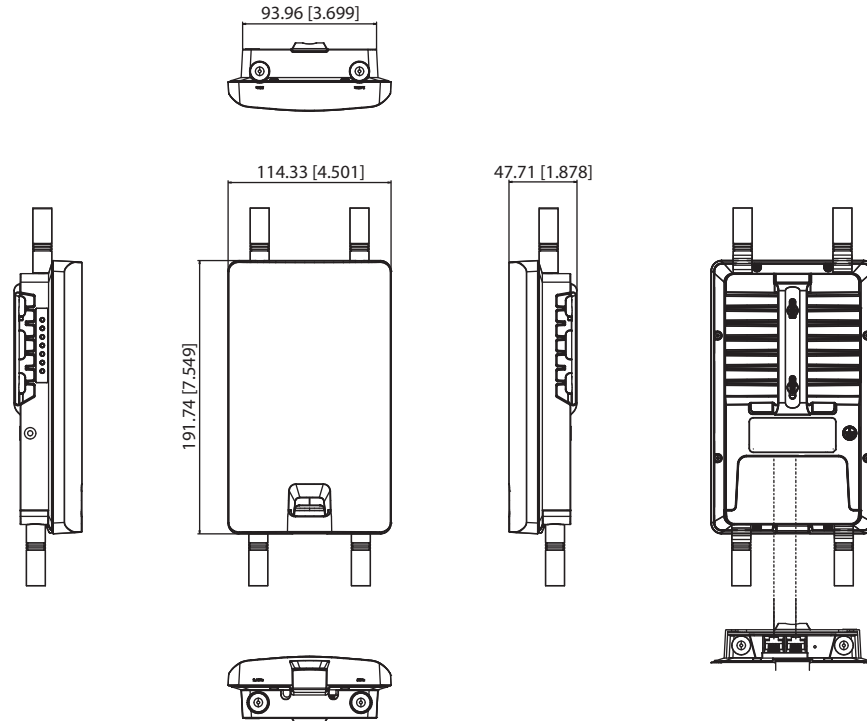- **Power Consumption** — 15W

Environment

- **Operating Temperature** — -20 ~ 60°C (-4 ~ 158°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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All product specifications are subject to change without notice.   Last updated: 21-Jul-2021

Dimensions

Unit: mm [inch]

93.96 [3.699]

114.33 [4.501]

47.71 [1.878]

191.74 [7.549]

Panel Cut-out Dimensions: 114.33 x 191.74 x 47.71 mm (4.5" x 7.5" x 1.8")

Wireless Transmission Rates (Non-EU SKU)

- **Transmitted Power***
  802.11a 25.4 dBm@6Mbps
  802.11b: 25.8 dBm
  802.11g: 25.6 dBm@6Mbps
  802.11n HT20(2.4GHz): 25.6 dBm@MCS0/8/16
  802.11n HT40(2.4GHz): 20.7 dBm@MCS0/8/16
  802.11n HT20(5GHz): 25.2 dBm@MCS0/8/16
  802.11n HT40(5GHz): 25.3 dBm@MCS0/8/16
  802.11ac VHT80: 23.1dBm @MCS0

- **Receiver Sensitivity**
  802.11a -92 dBm@6Mbps, -75 dBm@54Mbps
  802.11b: -96 dBm@1Mbps, -88 dBm@11Mbps
  802.11g: -91.5 dBm@6Mbps, -75 dBm@54Mbps
  802.11n HT20(2.4GHz): -91 dBm@MCS0,
  -73.5 dBm@MCS7
  802.11n HT40(2.4GHz): -88 dBm@MCS0,
  -71.5 dBm@MCS7
  802.11n HT20(5GHz): -91.5 dBm@MCS0,
  -72.5 dBm@MCS7
  802.11n HT40(5GHz): -88 dBm@MCS0, -70.5 dBm@MCS7
  802.11ac VHT80 -86 dBm @MCS0; -61 dBm @MCS9

*Note: The listed value is the target power calibrated in the card. The actual power will vary depending on each country's regulation

Ordering Information

- **EKI-6333AC-2G**   802.11 a/b/g/n/ac Wireless AP/Client
  (US Power cord include)

- **EKI-6333AC-2G-EU**   802.11 a/b/g/n/ac Wireless AP/Client
  (EU Power cord include)