

# EKI-6331AN

IEEE 802.11 a/n Wireless  
Access Point/Client Bridge

NEW



RoHS  
COMPLIANT  
2002/95/EC

CE FCC

## Features

- Compliant with IEEE802.11a/n
- IP55 waterproof certification
- MIMO 2 x 2 11n
- Embedded 16dBi dual-polarity directional antenna with external R-SMA connector for optional antenna
- High output power 24 dBm
- Passive 15V PoE
- Supports distances up to 10 Km
- WEP/WPA/WPA2/ IEEE 802.1 x authentication support
- IGMP snooping protocol support

## Introduction

EKI-6331AN is a feature rich wireless AP/ CPE which provides a reliable 5GHz wireless connectivity for industrial environments. The PoE injector enhances flexibility in deployment of this AP/ CPE even where the DC power supply is hard to fulfill. As an 802.11n compliant device, EKI-6331AN provides 3 times higher data rates than legacy 802.11a devices. With 2X2 MIMO technology, EKI-6331AN provides both robust wireless connectivity as well as high throughput rate in wireless transmission. With the support of WMM and IGMP snooping protocols, EKI-6331AN effectively improves the reliability of wireless connectivity, especially in applications that need high reliability and high throughput data transmission. To secure wireless connections, EKI-6331AN implements the latest encryption technologies including WPA2/WPA/802.1x for powerful security authentication.

## Specifications

### Standard Support

- **Wireless** IEEE802.11 a/n
- **Ethernet** IEEE802.3u MDI / MDIX 10/100 Fast Ethernet
- **LAN** IEEE802.11a wireless LAN interface  
IEEE 802.11n wireless LAN standard  
Passive 15V PoE  
US FCC Part 15
- **Certifications** Europe ETSI 300 328, ETSI 301 489-1&17,  
EN 60950 compliant and CE Mark  
EN 301 893 (5470-5725MHz DFS)  
EN 302 502 (5725-5850 MHz DFS)
- **Data Rates** 802.11a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps,  
auto-fallback  
802.11n: 6M, 6.5M, 13M, 13.5M, 19.5M, 26M, 27M,  
39M, 40.5M, 53M, 54M, 58.5M, 65M, 78M, 81M,  
104M, 108M, 117M, 121.5M, 130M, 135M, 150Mbps,  
up to 300 Mbps

### Physical Specifications

- **Power** 15VDC @ 0.8A; AC Adapter 100V~240V
- **Dimensions (L x W x H)** 111 x 256 x 48 mm
- **Weight** 500g

### Environment

- **Operating Temp.** -20 ~ 70° C (-4 ~ 158° F)
- **Storage Temperature** -30 ~ 80° C (-22 ~ 176° F)
- **Humidity** 5% ~ 95% non-condensing

### Interface Operation Modes

- Access Point (AP) / Customer Premise Equipment (CPE)

### Antenna

- **Antenna Configuration** 2 x 2 (2T2R)
- Default embedded 14~16 dBi (Dual-polarity)
- Reverse SMA Connectors (configured by software)

### Other Features

- **Management** Telnet, FTP, SNMP, Web UI
- **Security** Open System , Shared Key, 802.1X only, WPA, WPA2, WPA-PSK(TKIP)
- **Wireless** Radio on/off, WMM/Regatta Mode, Output Power Control, Fragmentation Length, Beacon Interval, RTS/CTS threshold, DTIM Interval

### Modulation Techniques

- **802.11n** OFDM(BPSK, QPSK, 16-QAM, 64-QAM)
- **802.11a** OFDM (BPSK, QPSK, 16-QAM, 64-QAM)

### Channel Support

- **FCC** 5725-5850 MHz
- **CE** 5470-5725 MHz, 5725-5850 MHz

### Wireless Transmission Rates

- **IEEE 802.11a:** 6-24Mbps: 24dBm  
54Mbps: 21dBm
- **IEEE 802.11n:** HT20 - MCS0: 23dBm  
MCS15: 20dBm  
HT40 - MCS0: 23dBm  
MCS15: 19dBm
- Note: bandedge exclusive (Controllable for different country regulations)

### Receiver Sensitivity

- **IEEE 802.11a** 54Mbps: -76dBm
- **IEEE 802.11n** HT20 - MCS15: -70dBm  
HT40 - MCS15: -66dBm

## Ordering Information

- **EKI-6331AN** IEEE 802.11 a/n Wireless AP/Client Bridge
- **EKI-6331AN-EU** IEEE 802.11 a/n Wireless AP/Client Bridge (EU)