EKI-6331AN

IEEE 802.11 a/n Wi-Fi AP/Client

Features

- Compliant with IEEE 802.11 a/n
- IP55 waterproof certification
- MIMO 2 x 2 11n
- External RP-SMA connectors for 2T2R antennae
- High output power
- Passive 24 V PoE
- WPA/WPA2-Enterprise encryption for a highly secure wireless network
- WEP/WPA/WPA2/ IEEE 802.1 x authentication support
- IGMP snooping protocol support

Introduction

The EKI-6331AN is a feature rich wireless AP/Client which provides a reliable 5GHz wireless connectivity for industrial environments. The PoE injector enhances flexibility in deployment of this AP/Client even where the DC power supply is hard to fulfill. As an 802.11n compliant device, EKI-6331AN provides 6 times higher data rates than legacy 802.11a devices. With MIMO 2 x 2 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**   IEEE 802.11 a/n
- **Ethernet**   IEEE 802.3u MDI / MDIX 10/100 Fast Ethernet
- **LAN**   IEEE 802.11a wireless LAN interface
  IEEE 802.11n wireless LAN standard
  Passive 24 V PoE, max. distance: 50 meters
- **Certification**   FCC 15B/C
  EN300328 V17.1
  EN301489 -1/-17
  EN55022/24
  EN60950
  Telec
- **Data Rates**   11a: 54M, 48M, 36M, 24M, 18M, 12M, 9M, 6Mbps auto fallback
  11n: HT20 MCS0~15 / HT40 MCS0~15

Physical Specifications

- **Power**   DC 24 V / 1A; AC Adapter 100 V ~ 240 V
- **Dimensions (W x H x D)**   111 x 256 x 48 mm (4.37" x 10.08" x 1.89")
- **Mounting**   Wall, Pole
- **Weight**   0.5 Kg

Environment

- **Operating Temp.**   -20 ~ 70°C (-4 ~ 158°F)
- **Storage Temperature**   -40 ~ 70° C (-40 ~ 158° F)
- **Humidity**   10% ~ 95% non-condensing

Interface Operation Modes

- Access Point (AP) / Client

Antenna

- Default external 5 dBi Omni antenna
- 2 x RP-SMA connectors (female) for RP-SMA antennae (male)

Other Features

- **Management**   Telnet, FTP, SNMP, Web UI
- **Security**   Open System , Shared Key, Lagacy 8021X, WPA, WPA2, WPA-PSK (TKIP), WPA2-PSK(AES)
- **Wireless**   Radio on/off, WMM/Regatta Mode, Output Power Control, Fragmentation Length, Beacon Interval, RTS/CTS threshold, DTIM Interval

Modulation Techniques

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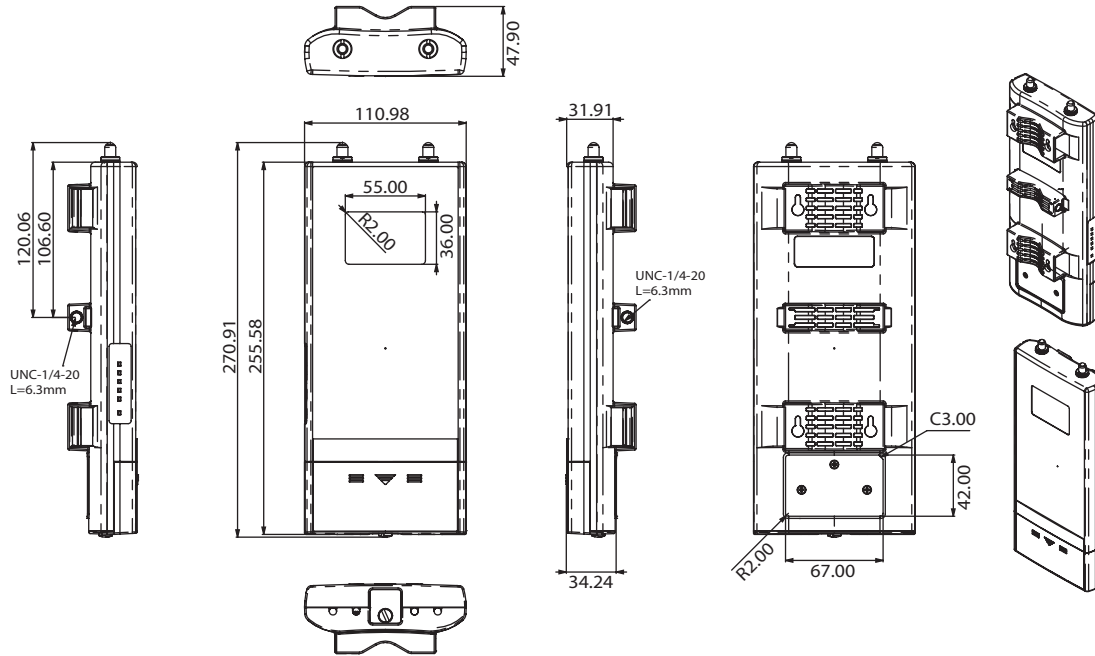- **IEEE 802.11a**   OFDM (BPSK, QPSK, 16-QAM, 64-QAM)

Channel Support

- **FCC**   5.15 GHz~5.25 GHz ; 5.725 GHz~5.85 GHz
- **CE**   5.15 GHz~5.35 GHz; 5.47 GHz~5.725 GHz

Wireless Transmission Rates

- **IEEE 802.11a**   6-24 Mbps: 23 dBm
  54 Mbps: 20 dBm
- **IEEE 802.11n**   HT20 - MCS0: 23 dBm
  MCS15: 19 dBm
  HT40 - MCS0: 21 dBm
  MCS15: 19 dBm
- Note: The listed value is the target power calibrated in the card. The actual power will vary depending on each country's regulation.

Dimensions

Unit: mm

Panel Cut-out Dimensions: 111 x 256 x 48 mm

Receiver Sensitivity
- **IEEE 802.11a** 6Mbps: -89 dBm
  54Mbps: -70 dBm
- **IEEE 802.11n** HT20 - MCS15: -65 dBm
  HT40 - MCS15: -62 dBm

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