# **EKI-6331AN**

# IEEE 802.11 a/n Wi-Fi AP/Client



#### **Features**

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



### Introduction

The EKI-6331AN is a feature-rich wireless AP/client that provides reliable 5-GHz wireless connectivity for industrial environments. The PoE injector enhances flexibility in deployment of this AP/client, even where DC power availability may be low. As an 802.11n-compliant device, the EKI-6331AN provides data rates six times higher than legacy 802.11a devices. With MIMO 2 x 2 technology, the EKI-6331AN provides robust wireless connectivity and a high throughput rate for wireless transmission. Furthermore, support for WMM and IGMP snooping protocols ensures that the EKI-6331AN can effectively improve the reliability of wireless connections, especially in applications that require high throughput data transmission. To secure wireless connections, the 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, PoleWeight 0.5 Kg

#### **Environment**

Operating Temp.
 Storage Temperature
 Humidity
 -20 ~ 70 °C (-4 ~ 158 °F)
 -40 ~ 70 °C (-40 ~ 158 °F)
 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**

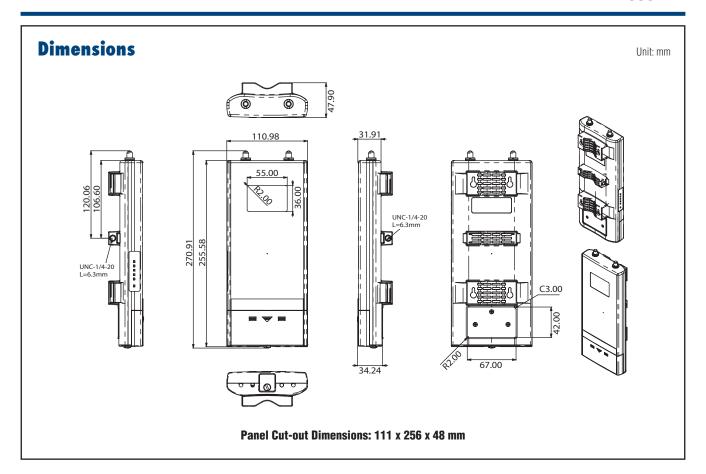
FCC
 5.15 GHz ~ 5.25 GHz ; 5.725 GHz ~ 5.85 GHz
 CE
 5.15 GHz ~ 5.35 GHz; 5.47 GHz ~ 5.725 GHz

#### **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.



## **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)