EKI-6331AN

IEEE 802.11 a/n Wi-Fi AP/CPE



Features

- Compliant with IEEE 802.11 a/n
- IP55 waterproof certification
- MIMO 2 x 2 11n
- Embedded 16 dBi dual-polarity directional antenna with external R-SMA connector for optional antenna
- High output power 24 dBm
- Passive 15 V PoE
- Supports distances up to 10 km
- WEP/WPA/WPA2/ IEEE 802.1 x authentication support
- IGMP snooping protocol support

Introduction

The 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 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 IFFF 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 15 V PoE

US FCC Part 15 Certification

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 IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps,

auto-fallback

IEEE 802.11n: 6 M, 6.5 M, 13 M, 13.5 M, 19.5 M, 26 M, 27 M, 39 M, 40.5 M, 53 M, 54 M, 58.5 M, 65 M, 78 M, 81 M, 104 M, 108 M, 117 M, 121.5 M,

130 M, 135 M, 150 Mbps, up to 300 Mbps

Physical Specifications

Power 15 V_{DC} @ 0.8A; 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 -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

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

Channel Support

FCC 5725-5850 MHz

5470-5725 MHz, 5725-5850 MHz

Wireless Transmission Rates

 IEEE 802.11a 6-24 Mbps: 24 dBm

54 Mbps: 21 dBm

 IEEE 802.11n HT20 - MCS0: 23 dBm

MCS15: 20 dBm HT40 - MCS0: 23 dBm MCS15: 19 dBm

Note: bandedge exclusive (Controllable for different country regulations)

Receiver Sensitivity

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

Ordering Information

EKI-6331AN IEEE 802.11 a/n Wireless AP/CPE EKI-6331AN-EU IEEE 802.11 a/n Wireless AP/CPE (EU)

ADVANTECH

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