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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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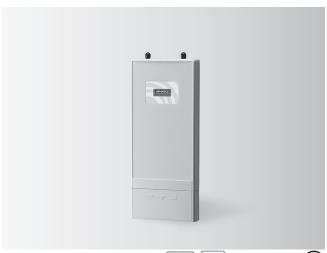






EKI-6331AN

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

IEEE 802.11a wireless LAN interface ΙΔΝ 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

DC 24 V / 1A: AC Adapter 100 V ~ 240 V Power Dimensions (W x H x D) 111 x 256 x 48 mm (4.37" x 10.08" x 1.89")

Wall. Pole Mounting Weight 0.5 Kg

Environment

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

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

Open System, Shared Key, Lagacy 8021X, WPA, Security

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

 IFFF 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

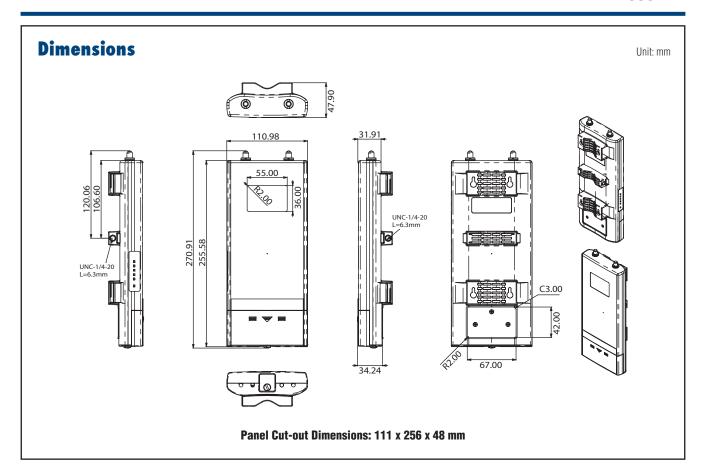
 IEEE 802.11a 6-24 Mbps: 23 dBm

54 Mbps: 20 dBm

HT20 - MCS0: 23 dBm IEEE 802.11n

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

6Mbps: -89 dBm 54Mbps: -70 dBm • IEEE 802.11a

HT20 - MCS15: -65 dBm • IEEE 802.11n

HT40 - MCS15: -62 dBm

Ordering Information

EKI-6331AN IEEE 802.11 a/n Wireless AP/Client

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