EKI-6310GN

Features

- Compliant with IEEE802.11b/g/n
- IP66 waterproof certification
- High output power 27dBm
- Standard PoE (802.3af) support
- Support distances up to 5Km
- Support wireless data encryption with 64/128 bits WEP/WPA/WPA2/TKIP with IEEE 802.1X-Enterprise encryption for a highly secure wireless network
- WEP/WPA/WPA2/ IEEE 802.1 x authentication support
- Support WPS by software

RoHS COMPLIANT 2011/65/EU CE FCC

Introduction

The EKI-6310GN is a feature rich wireless AP/ CPE which provides a reliable wireless connectivity for industrial environments. The stanard PoE input 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-6310GN provides 3 times higher data rates than legacy 802.11g devices. EKI-6310GN, with an integrated Type N RF connector that can be directly plugged in to any antenna to create a robust outdoor AP/CPE, effectively improves the reliability of wireless connectivity, especially in applications that need high reliability and high throughput data transmission. To secure wireless connections, EKI-6310GN implements the latest encryption technologies including WEP/WPA/WPA2/802.1x for powerful security authentication.

Specifications

Standard Support

Wireless	IEEE802.11b/g/n
Ethernet	IEEE802.3u MDI / MDIX 10/100 Fast Ethernet
LAN	IEEE802.11b/g wireless LAN interface IEEE 802.11n wireless LAN standard Standard PoE 802.3af
Data Rates	802.11b 11, 5.5, 2, 1 Mbps, auto-fallback, 802.11g 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

Physical Specifications

Power	Standard PoE 802.3af
Dimensions (W x H x D)	61.7 x 206.2 x 47.7 mm (2.43" x 8.12" x 1.88")
Mounting	DIN-rail, Wall, Pole
Weight	0.5 Kg

Environment

Operating Temp.	Non Heater: -30 ~ 70°C (-22 ~ 158°F)
Storage Temperature	-30 ~ 80°C (-22 ~ 176°F)
Humidity	10% ~ 95% non-condensing

Interface Operation Modes

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

Antenna

Antenna Configuration	1x1 (1 Tx, 1 Rx)

- Reserve N-type Connector (Plug)

*Equipped N-to-RSMA adaptor and 5dBi dipole antenna for indoor AP applications.

Other Features

- Telnet, FTP, SNMP, Password Changes, Firmware updates, Configuration Files
- Output Power Control, Bandwidth Control, Distance Adjustment, Site survey
- Open System , Shared Key, Radius 802.1X , WPA, WPA2, WPA-PSK (TKIP)

Modulation Techniques

802.11n	OFDM(BPSK, QPSK, 16-QAM, 64-QAM)
802.11b	DSSS (DBPSK, DQPSK, CCK)
802.11g	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)

Channel Support

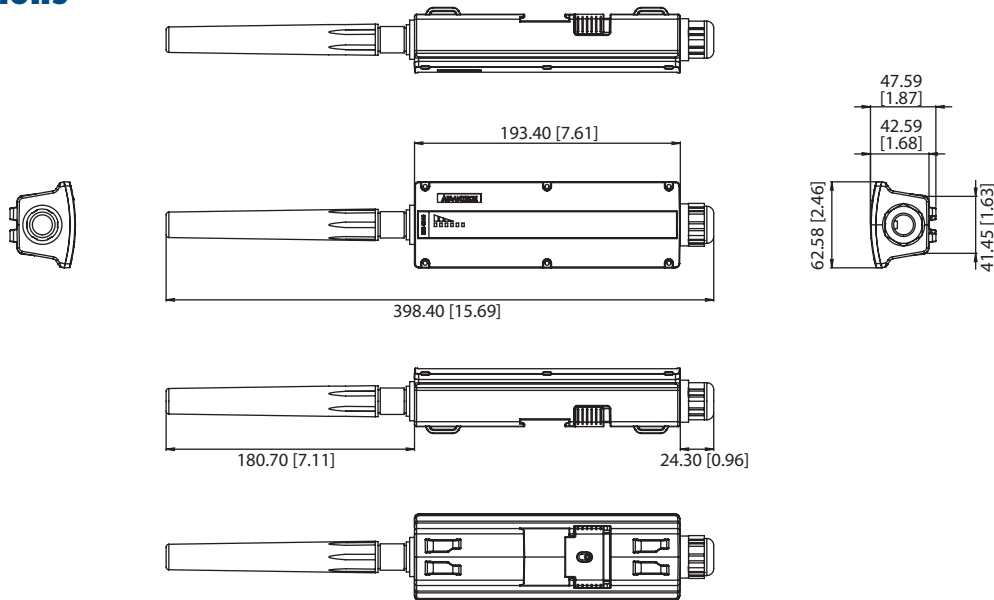|	
802.11b/g/gn	HT20 FCC: CH1 ~ CH11; ETSI: CH1 ~ CH13
802.11gn	HT40 FCC: CH3 ~ CH9; ETSI: CH3 ~ CH11

Wireless Transmission Rates

Transmitted Power	Max. 27 dBm

Receiver Sensitivity

802.11b Sensitivity	-95dBm @ 11Mbps
802.11g Sensitivity	-92dBm @ 54Mbps
802.11n Sensitivity	-90dBm @ HT20

Dimensions

Unit: [mm]

193.40 [7.61]

398.40 [15.69]

47.59 [1.87]

42.59 [1.68]

62.58 [2.46]

41.45 [1.63]

180.70 [7.11]

24.30 [0.96]

Panel Cut-out Dimensions: 398.4 x 62.58 x 47.59 mm (15.69" x 2.46" x 1.87")

Ordering Information

- **EKI-6310GN**   802.11 b/g/n Wireless Access Point/CPE (US)
- **EKI-6310GN-EU**   802.11 b/g/n Wireless Access Point/CPE (EU)