# KyAir110

## DIN-RAIL INDUSTRIAL WIRELESS AP

- Support 802.11ac, access capability is 1167Mbps
- Support dual Gigabit Ethernet Ports
- Support NAT
- Support seamless roaming in ms
- Support MAC address cloning
- Support IPV4/IPV6
- Metal Housing，operating temperature: -40℃～+70℃

## ≫ Overview

KyAir110 DIN-RAIL industrial wireless AP is a wireless access device based on IEEE 802.11ac technology launched by Kyland. The device has the advantages of rich functions, high performance and high reliability. KyAir110 is used to meet the requirements of wireless applications in various industrial scenarios.

KyAir110 is suitable for mobile access, wireless coverage, Internet of Things and other related scenarios. KyAir110 can work in the 2.4GHz and 5GHz frequency at the same time and support IEEE802.11 a/b/g/n/ac.

KyAir110 can also work in wireless client mode and be installed on AGV trolleys to provide fast wireless switching capabilities. At the same time, it can flexibly choose 2.4GHz or 5GHz access according to the requirements of the scene.

## ≫ Key Features

### Frequency

IEEE802.11b/g/n:  2.4GHz-2.483GHz
IEEE802.11ac/n/a:  5.150GHz-5.350GHz
5.725GHz-5.850GHz

### Ethernet Interface

Port Number:  2
Port Type:  10/100/1000Mbps, Copper port

### Serial Port

Serial Number:  1个 RS232 or RS485 serial port
Serial Type：Termial

### Serial Communication Parameters

Data bit:  5、6、7、8
Stop bit:  1、2
Check bit:  None、Even、Odd
Baud rate:  4800bps ~ 921600bps

### Modulation technology

OFDM : BPSK@6/9Mbps、QPSK@12/18Mbps、
16-QAM@24Mbps、64-QAM@48/54Mbps
DSSS : DBPSK@1Mbps、DQPSK@2Mbps、CCK@5.5/11Mbps
MIMO-OFDM (11n): MCS 0-15
MIMO-OFDM (11ac): MCS 0-9

### Modulation method

11b:DSS: CCK@5.5/11Mbps, DQPSK@2Mbps, DBPSK@1Mbps
11a/g: OFDM: 64QAM@48/54Mbps, 16QAM@24Mbps, QPSK@12/18Mbps, BPSK@6/9Mbps
11n: MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM
11ac: MIMO-OFDM:BPSK, QPSK, 16QAM, 64QAM, 256QAM

### Transmit power

Maximum transmit power:  20dBm
Adjustable granularity of transmit power:  1dBm

## Device Management

Support Web Management （HTTP/HTTPS）
Support SNMP v1/v2c/v3
Support SNMP Trap
Support Telnet
Support FTP/TFTP

## Maximum number of access users

256

## Maximum connection rate

2.4GHz: 300Mbps
5GHz: 867Mbps

## WLAN

Support RTS/CTS
Support CTS-to-self
Support Hide SSID
Support terminal aging, heartbeat detection

## RF management

Support Load balancing
Support 5GHz priority
Support automatic channel selection
Support automatic power adjustment
Support intelligent rate selection algorithm
Support time fair scheduling algorithm

## Roaming

Support 802.11k, 802.11v, 802.11r
Support Turbo Roaming

## Security

Encryption : Support 64/128 bits WEP、TKIP、CCMP、WAPI
Authentication：Support WPA、WPA -PSK、WPA2 - Enterprise、
            WPA2-PSK、MAC address、Web 、PPPoE
Support Layer 2 isolation of wireless users
Support WIDS

## Layer 2, 3 Function

Support static IP，DHCP
Support IPv6
Support ACL

Support DHCP Server
Support NAT

## Operating Mode

Support AP Mode
Support Client Mode

## Physical Characteristics

Housing：Aluminum
Dimension（WxHxD mm）：33x114x98

## Environmental Limit

Operating Temperature：-40 to 70℃
Storage Temperature：-40 to 70℃
Ambient Relative Humidity：5～95%, non-condensing
Cooling Natural convection：Fanless
Protection Class：IP40
Installation：DIN-RAIL

## Warranty

MTBF：＞300000h
Warranty：5 Years
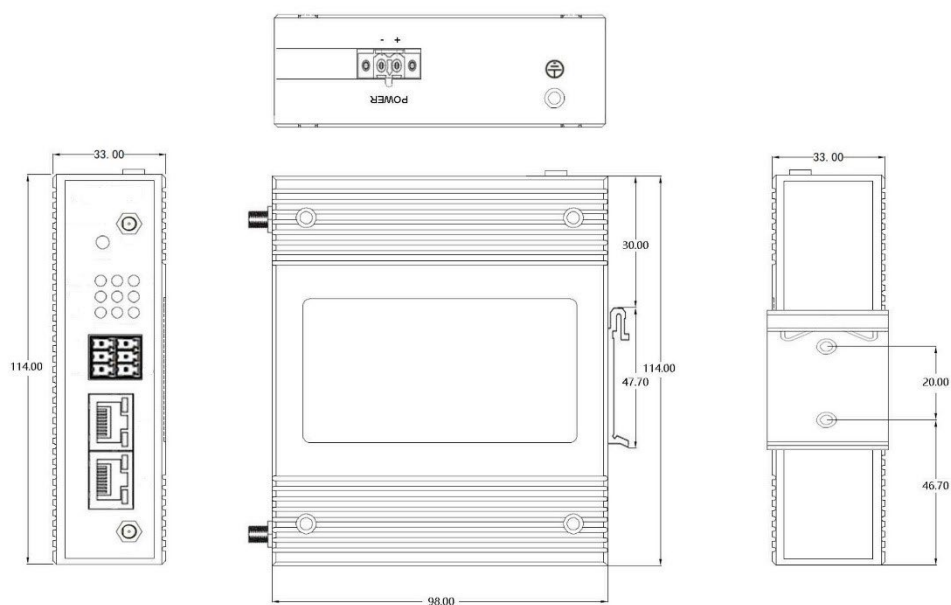
## Power Requirement

Power Input：12～36 VDC
Power Terminal：2 -pin plug-in terminal block
Power consumption：<14W
Overload Protection：Support
Reverse Protection：Support

## Size



**KyAir110-2GE1D-L5**

## Order Information

| | Model | Description |
|---|---|---|
| Product Model | KyAir110-2GE1D-L5 | Industrial wireless AP with 5db rod antenna, support 802.11a/b/g/n/ac, 2 Gigabit copper ports, 1 RS232/485 serial port, 12-36VDC power supply |
| Accessory Model | KyAir-ANT-5.8G-D-SMA | 5.8GHz directional panel antenna, 2MIMO outdoor directional antenna, gain 7dB, no feeder, two NK connectors |
| | KyAir-ANT-2.4G&5.8G-D-SMA | Dual-band directional panel antenna, 2MIMO outdoor directional antenna, gain 7dB, no feeder, two NK connectors |
| | KyAir-Cable-RPSMAJ-NJ-7D1.5 | 7DFB feeder, connector form SMAJ-NJ, 1.5m, with directional plate antenna |
| | KyAir-Cable-RPSMAJ-NJ-7D6 | 7DFB feeder, connector form SMAJ-NJ, 6 m, with directional panel antenna |