

SkyLINK 5111 Series

5.8GHz 2E1 PTP Digital Radios



E1 Point to Point Digital Radios is an emerging wireless telecommunication technology which combines high frequency microwave technology, digital modulation and demodulation technology, computer control and telecommunication technology. It has been used widely in the aspects of post, electricity, academics, various enterprises, military, and professional systems especially for connecting between base stations of mobile communication. As an approach of rapid connection, it could also been used in emergency and urgent communication widely. It is fast to setup, and can be deployed with great ease during urgent times when the need for communication is imminent. The E1 PTP Digital Radios of K-best technology could be operated in the frequency of ISM 2.4GHz, 5.8GHz and could be customized according to customer's need. The system is a multi-function and multi-purpose total solution of voice which provides data transmission rate from 2 E1 to 16E1.

Benefits

- **E1 PTP Digital Radio**
- **Support Data Rate : 4Mbps**
- **Products are available in the licensed band of 2.4GHz, 5.8GHz**
- **Customization Frequency**
- **Transmission Distance up to 40km**
- **Wide Operating Temperature: -30~60 °C**
- **Signal Indicator greatly simplifies antenna installation**
- **SNMP Supported**

Features

System

Capacity

2E1

System Frequency

5.725 ~ 5.850GHz

Communication Mode

FDD

Emission Type

MSSS(Multiple Sequence Spread Spectrum)

Signal Indicator Function:

5-LED Indication

>-75dBm: 1 LED ON

>-55dBm: 3 LEDs ON

>-35dBm: 5 LEDs ON

Tx Output Power

= 22dBm

Rx Dynamic Range

-84dBm~-15dBm

Receiver Max Input

< -10dBm

Gain Flatness

Rx \pm 1 dB, Tx \pm 1 dB

Tx & Rx Isolation

60dB

Modulation

QPSK

Sensitivity @ BER 10⁻⁶

<-87dBm(2E1)

RF Channel

8 channels (2E1)

Channel Spacing

3.5 ~ 28 MHz

PA Control

10~22dBm(25°C)

Transmission Distance

2~40km

Digital Line Interface**E1 Digital Interface**

RJ-48 Balanced, 120 ohm

Module

2E1

BER Signal

Display on IDU LCD

RSSI

Antenna Alignment

Data Interface**RF Interface**

N-type

IF Cable Type & Length

RG-6 100m

RG-8 200m

Service Channel**Telephone**

Frequency: 300-3400MHz

Interface: RJ-11

Monitoring Data

Protocol: RS-232

Interface: DB-9

Stack and Remote Monitoring

Protocol: RS-232

Interface: DB-9

Data Transmission (AUX1)

Protocol: RS-232/RS422

Interface: DB-9

Data Transmission (AUX2)

Protocol: Asynchronous/Synchronous

Interface: DB-25

User Input

Type: Photo-coupled(TTL)

Interface: DB-26

Number: 8

User Output

Type: Relay output

Interface: DB-26

Number: 4

Management**NMS**

Telnet, SNMP v1.0, SNMP v2.0, MIB II

Operation System

Linux, Win98, WinMe, Win2000, WinXP

Power / Environment**Power Input**

DC -48V / 1A (-36~72V)

Operating Temperature

IDU: -5~55 °C

ODU: -30~60 °C

Humidity

IDU: 10%~95%, non-condensing

ODU: 0%~100%

Dimension

ODU: 392(w) × 310(h) × 156(d) mm; 6.84 kg

IDU: 435(w) × 280(d) × 44(h) mm; 4.04 kg

Warranty

1 Years Limited Warranty