

# SkyLINK 5113 Series

## 5.8GHz 8E1 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 : 16Mbps*
- *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

8E1

##### 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<sup>-6</sup>

<-81dBm(8E1)

**RF Channel**

2 channels (8E1)

**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**

8E1

**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