

KX-PRWA10 Radio part description

Category : Intentional Radiator

Model name: KX-PRWA10 (Handset)

Frequency band : 1920 to 1930 MHz

Emission Designations : : F1E

Frequency Shift Keying deviation : +/- 400kHz

Bit Rate : 1.152 MBit/sec

Type of Antenna

Wired-monopole-Antennna (Gain -2.0dBi)

Power Rating

DC 2.4V (1.2V Ni-MH Battery cell X 2)

Frequency table :

Carrier N	CenterFrequency on TX/RX (MHz)	Local on TX (MHz)	Local on RX (MHz)
0	1928.448	3856.896	3858.624
1	1926.720	3853.440	3855.168
2	1924.992	3849.984	3851.712
3	1923.264	3846.528	3848.256
4	1921.536	3843.072	3844.800

Transmitting Frequency : 1921.536 - 1928.448MHz

Receive Frequency : 1921.536 - 1928.448MHz

Channel Space : 1.728 MHz

IF Frequency : 864kHz

Other Clock Frequency : 10.368MHz (Reference clk for PLL)

Frequency stability

Handset : +/- 10ppm

Multiplex mode : Time Division Duplex

The basic, repeating, frame structure is 10msec long. It is sub-divided into 24 slots, each 417usec long. The active transmission time (PA ON Time) is below.

Base Dummy slot : 106usec

Base link slot : 396 usec

Handset link slot 394usec

The first 12 slots from the "up-link", when the Handsets transmit to the Baseset.

The last 12 slots form the "down-link", when the Baseset transmits to the Handsets.

This system uses TDD (Time Division Duplex) to carry a two-way voice communication. This is always by using slot-pairs: 0 and 12, 2 and 14, 4 and 16, 6 and 18, 8 and 20, 10 and 22.

CH Number : 60 (12 slots X 5 carrier)