

CR-64 Technical Specifications

GENERAL

Control Operation	Microprocessor
Mode of Operation	Full Duplex
Number of Channels	1, 2, 8, or 16 (user specified)
Frequency Range	450-470 MHz (other freqs incl VHF avail)
TX/RX Separation	5 MHz
Operating Voltage	13.8V
Max. Current Drain	< 0.5 A Standby 2W - < 2.8A In Use 10W - < 4.8A In Use 30W - < 7.3A In Use
Antenna Impedance	50 ohms
Antenna Connection	N-Type

Central Proc Unit Interface - C.O.

Control Operation	System Microprocessor Control for all Signaling and Monitoring.
Standard Line Interface	2 Wire, Ring & Tip
Connection Type	RJ-11, RJ-14
Signaling to Telco	DTMF, Pulse Dial
Hybrid Return Loss	Greater than 55 dB
Audio Impedance	600 ohms

Central Proc Unit Interface - SUBSCRIBER TERMINAL

Control Operation	System Microprocessor Control for all Signaling and Monitoring
Loop Voltage to Telephone Set	-48 VDC
Loop Resistance	600-1800 ohms
Signaling	DTMF
Connection Type	RJ-11C Jack
Hybrid Return Loss	Greater than 55dB

RECEIVER

Channel Spacing:	12.5 kHz	20/25 kHz
Sensitivity		
EIA: 12	.35 μ V	.30 μ V
CEPT 84	.45 μ V	.40 μ V
Selectivity		
EIA:	-65 dB	-75 dB
CEPT 84:	-65 dB	-75 dB
Intermodulation*		
EIA:	-65 dB	-75 dB
CEPT 84:	-70 dB	-70 dB

Frequency Stability

(-30° C to +50° C)

Spur Rejection

EIA: -75 dB

CEPT 84: -70 dB

Image Rejection

EIA -75 dB

CEPT 84 -75 dB

Input Impedance

TRANSMITTER

Frequency Stability

(-30° C to +50° C): ±.00025%

Spurs/Harmonics

1-10W: -35 dBm (.25 μW)

25-40/45W: -13 dBm (.50 μW)

Audio Response: +1/-3 dB
300 to 3000 Hz,
2550 Hz @ 12.5 kHz

Audio Distortion: <3% EIA

FCC Modulation

@ 20/25/30 kHz: 16K0F1D,
16K0F2D,
16K0F3E

@ 12.5 kHz: 11K0F1D,
11K0F2D,
11K0F3E

Output Impedance: 50 ±

Modulation Sensitivity: 80 mV for 60%
max. deviation

Channel Spacing: 20/25 kHz 12.5 kHz

FM Noise EIA: 40 dB 35 dB

CEPT 84: 50 dB 45 dB

SERVICE CONDITIONS

Ambient Temperature

-30° C to +60° C

Relative Humidity

5 to 95% at -30° C to +60° C

Duty Cycle

Continuous, Unattended

REGULATIONS

FCC Compliance Parts

15, 22, 74, 90, 94, and 95A

DOC Compliance

RSS 119, Issue 3

MECHANICAL CHARACTERISTICS

WALL MOUNT ENCLOSURE:

Base Station

12 x 10 x 7"
30.5 x 25.4 x 17.8 cm
17 lbs.
7.7 kg

Subscriber Terminal

Same as Base Station

OUTDOOR ENCLOSURE:

Base or Subscriber Terminal

14 x 12 x 8"
35.5 x 30.5 x 20.3 cm
23 lbs.
10.5 kg

RACK MOUNT ENCLOSURE:

Base or Subscriber Terminal

8.5 x 17 x 9.0"
21.6 x 43.2 x 22.85 cm
18 lbs.
8.1kg