

MODEL 24-66 VoIP BASE REMOTE CONTROLLER

With tons of features, stylish good looks and the famous IDA dependability the MODEL 24-66 VoIP is destined to be a crowd pleaser. Our newest addition joins the most extensive family of base station remotes and panels in the world.

The 24-66 VoIP allows Remote Control of a base station radio via an Ethernet LAN. The remote can also be connected to a computer, which allows the computer access to the LAN without the need for a hub. The 24-66 VoIP can also provide Remote Control across an internet. The internet might be composed of one or more Ethernet LANs, WANs, or the Internet.



All the features of IDA's traditional 24-66 series of Tone and Digital Remotes and more are available with the MODEL 24-66 VoIP including:

STANDARD FEATURES

- Handset or desk mic
- Up to 250 channels
- Intercom
- Mute
- Clock
- VU meter
- Alpha- numeric display
- 110 or 15 volt operation
- US or European power supply

OPTIONS

- One touch transmit
- Optional wall mount
- Headset and Footswitch

1 Overview

The basic function of the voice over IP (VoIP) radio control system is to allow a private mobile radio base station to be controlled from a remote location. The system consists of a base station radio, a panel and a remote. The panel connects to the radio and provides direct control of the radio based upon control signals from the remote. The panel also has access to the radio's receive and transmit audio which is passed to and from the remote. The panel and the remote are connected by means of an IP network. This system will allow a user of the remote to change the current radio channel and select other radio functions in much the same way as can be done directly at the radio. The user of the remote can also carry on voice conversations with mobile radio users through the base station radio.

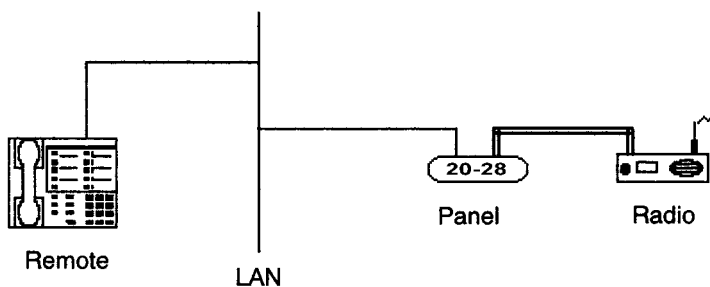


Figure 1: Basic VoIP Radio Control System

2 Basic System

The basic VoIP radio control system is depicted in Figure 1. The remote and the panel are connected via an Ethernet LAN. If desired, the VoIP remote can also be connected to a computer which allows the computer access to the LAN without the need for a hub. Thus eliminating the need for separate cabling.

3 Extended System

An extended VoIP radio control system is depicted in Figure 2. Here, multiple remotes connect to the panel across an internet. The internet might be composed of one or more Ethernet LANs, WANs, or the Internet.

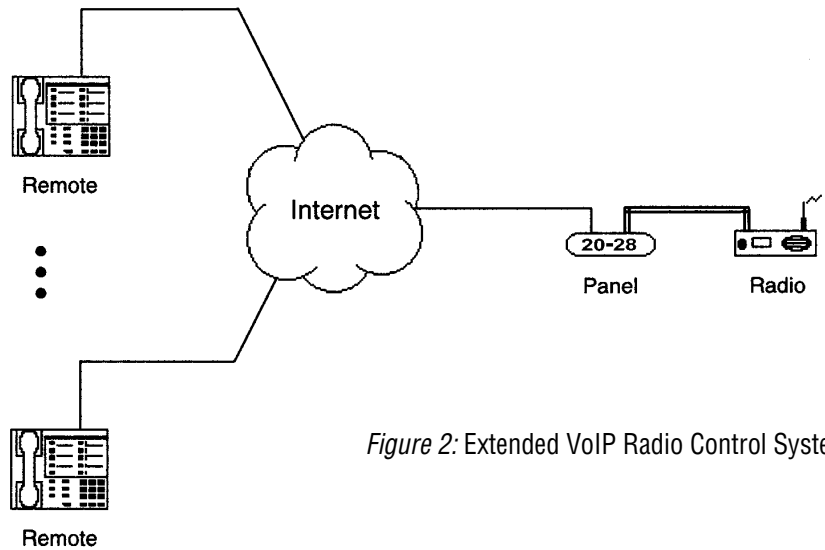


Figure 2: Extended VoIP Radio Control System



MODEL 20-28 VoIP Termination Panel

Designed for use with the MODEL 24-66 VoIP desktop controller the MODEL 20-28 VoIP interfaces to remotely located base stations or repeaters. Based upon proper control signals received from the desktop controller the MODEL 20-28 VoIP directly controls the radio by either binary or serial control.

Local Option

For installations where local operation of the base station is desired, the 20-28 VoIP is available with desk microphone, speaker jack and volume control. (Option RTM-604)

Model 24-66 VOIP SPECIFICATIONS

Input voltage	15 Vdc @ 1000 mA 24 Watt Wall Transformer 2.1 x 5.5 mm barrel conn. Center (+)
Current consumption @ 15 Vdc	450 mA (TX) 800 mA (RX) 400 mA (Standby)
Standby voltage	15 Vdc
Temperature range	0 to +60 degrees C
Relative humidity	90% at 50 degrees C
TX hum and noise	-60 dB (ref. +0 dBm)
Threshold of compression (speaker audio)	-20 dBm adjustable
Speaker audio output	3 W into 4 ohms
Distortion at rated speaker output	< 3%
RX hum and noise	-47 dB (ref. 0dBm)
Frequency response	+1, -3 dB (300 to 3000 Hz)
TX compression	With an audio increase of 30 dB beyond the start of compression the output increases less than 17.5 db
Ethernet Interface	The Ethernet interface consists of a three port switch. One port connects externally to the LAN and the second port connects externally to a computer to allow the computer access to the LAN. The third port connects internally to the Ethernet port of the NET+ARM MCU.
DSP firmware	The DSP firmware provides the following standard CODEC algorithms: G.711, G.723.1, G.726.
Weight	4 lbs 15 oz
Dimensions	4.75" (H) x 10" (W) x 8" (D)

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