IDA

The Way for 2-Way

Model 24-66

Best-in-Class VoIP Base Remote Controller

With our renewed commitment to VoIP / IP, Model 24-66 offers industry's best price performance remote control solution to meet diverse needs of our clients.

Being IP-centric it offers all the inherent advantages of IP connectivity. Model 24-66 VoIP Remote Controller offers multiple configuration options including Ethernet LAN, WAN and IP cloud based connectivity.

Model 24-66 VoIP Controller incorporates all the functionalities of our highly successful Tone and DC remotes.

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)

Features & Capabilities

- Handset or desk mic
- Up to 99 channels
- Intercom
- Mute
- Clock
- VU meter
- Alpha-numeric display
- 110 or 15 volt operation
- US or European power supply

OPTIONAL FEATURES

- One touch transmit
- Wall mount
- Headset and footswitch

EFJohnson TECHNOLOGIES · HARRIS · ICOM · KENWOOD · MIDLAND · MOTOROLA · RELM WIRELESS · tait communications · Vertex Standard

Model 24-66 VoIP
Specifications

Input voltage ..... 15Vdc @ 1000mA
24 Watt Wall Transformer
2.1 x 5.5mm barrel conn. Center (+)

Current consumption @ 15Vdc ..... 450 mA (TX)
800 mA (RX)
400 mA (STBY)

Standby voltage ..... 15 Vdc

Temperature range ..... 0 to +60° C

Relative humidity ..... 90% at 50° C

TX hum & noise ..... -60 dB (ref. +0 dBm)

Threshold of compression (speaker audio) ..... -20 dBm adjustable

Speaker audio output ..... 3W into 4 ohms

Distortion (at rated speaker output) ..... < 3%

RX hum & noise ..... -47 dB (ref 0dBm)

Frequency response ..... +1, -3 dB (300 to 3000 Hz)

TX Compression ..... With an audio increase of 30dB beyond the start of compression the output increases 17.5dB

Ethernet Interface ... The Ethernet Interface consists of a three port switch. One port connects externally to the LAN, 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 lb. 15 oz.

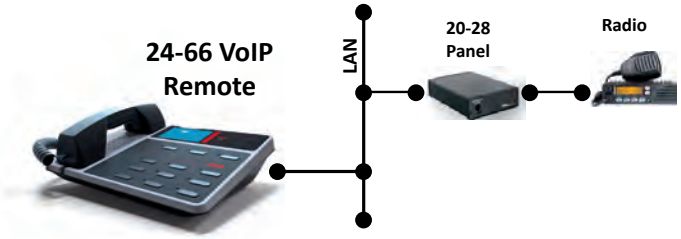
Dimensions ..... 4.75" (h) x 8" (d) x 10" (w)

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.

Basic Setup

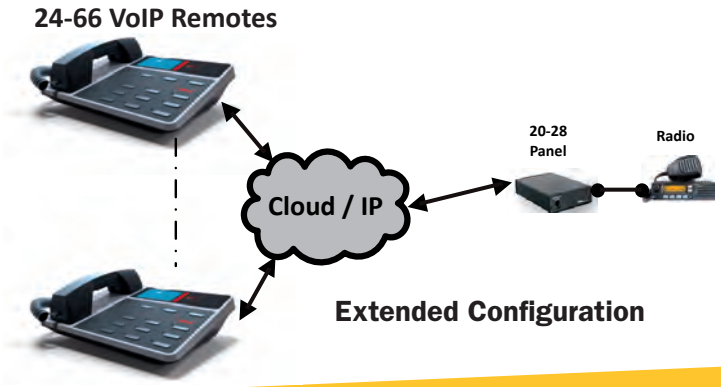
The basic VoIP radio control system is depicted in Figure 1. The remote and the panel are connected via an Ethernet LAN. If desired, the VoIP remote can also be connected to a computer which allows the computer access to the LAN without the need for a hub, thus eliminating the need for separate cabling.



Basic Configuration

Extended Setup

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 Cloud.



Extended Configuration

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