



## OpenVox Radio Interface Unit

### Overview

Radio Interface Unit (RIU) is a powerful voice access device that facilitates the integration of intercom trunking systems with telephone systems. Users can conveniently call the intercom through the phone or use the intercom to make calls. The system supports both traditional PSTN phone lines and SIP-based VoIP phone lines, which are easy to deploy and use, and can be plug-and-play.

RIU adopts telecom-grade product design solutions, with strong networking and sound processing capabilities, using microcomputer chip technology and electronic switch technology. The RIU is independent of the control of each channel, with sensitive operation of cut-in and cut-out audio signals, and can realize 2/4 channels intercom access at the same time. It can be widely used in all walks of life special command and control system.

RIU provides 2/4 channels intercom interfaces with RJ45 plug, configured with professional intercom control cable, compatible with Motorola, Kenwood and other mainstream intercom handsets and car radios. In addition, the voice algorithm developed by RIU with the experience in the field of multi-party voice makes its call effect higher than similar products on the market today.

RIU is flexible and simple to deploy, and can be used with a simple connection. It support PSTN, SIP, and compatible with multiple models of handsets and radios.

### Features

#### System characteristics

- Echo Suppression, Noise Suppression
- Adaptive VOX (voice activation) with adjustable sensitivity
- Multiple dialing and receiving rules configuration
- Moderate price/performance ratio, simple integration application
- Patented voice algorithm to ensure clear voice quality
- Simple and convenient configuration via WEB GUI
- Multi-channel telephone (SIP, PSTN) access processing capability
- Powerful compatibility support Motorola, Kenwood and other brands of walkie-talkies
- Support SIP INFO power grabbing function
- Support DTMF dialing
- Support PPT hotline call

#### Strong Compatibility

The equipment supports the use of different telephone lines, and can be connected to PBX subscriber lines, telecom office subscriber lines, analog subscriber gateway IAD and other equipment. In addition, it can also support SIP applications of IP-PBX, softswitch, and SIP server of major companies, and can be seamlessly connected to the vast dispatching command system.

#### Applications

RIU can be widely used in the command and dispatch system of public security, armed police, fire fighting, army, railroad, human defense, mining, forestry, petroleum, electric power and government. It realizes the rapid response of emergency disposal and the unified communication of multiple means of communication.

## Specifications

Radio Interface Unit	
Port	RJ45
Protocol	Standard SIP, TCP/IP
Dimension	160mm*100mm
Weight	0.132kg
Panel Color	Grey
Capacity	2/4 Channels Audio Input or Output
Codecs	G.711、 G.729、 G.723
Management Control	WEB Management
Radio Control	PTT、 VOX、 COR
Cluster Parameters	Support SIPNFO snatch function; Support DTMF dialing; Support PPT hotline call
Distortion	≤1%
Signal-to-noise ratio	≥70dB (excluding telephone line noise)
Sidetone Suppression	≥45dB
Maximum Power	2W
Power Specifications	12VDC
Working Temperature	-20℃ ~ 60℃
Working Humidity	8% ~ 90% Non-condensing
Minimum Ventilation Space	6.4cm

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