RSP-Z2™

DUAL-CHANNEL INTEROPERABILITY GATEWAY

OVERVIEW

This versatile analog/VoIP interface allows a pair of radios, a pair of IP connections, or a radio and IP connection to be patched together and/or remotely interfaced to other devices. The RSP-Z2 incorporates the latest JPS interoperability technology advancements into a small aluminum package; the result is an incredibly versatile dual channel analog and VoIP interface.

Incorporating the JPS suite of radio interface algorithms and the ability to use JPS' large catalog of radio interface cables, the RSP-Z2 embodies all of the customer-friendly features and benefits you've come to expect from JPS.

INDEPENDENT PASSTROUGH MODE

In Independent Passthrough, the RSP-Z2 acts as a pair of independent IP data streams. A variety of resource types can be interfaced, but most commonly, this configuration transfers LMR radio audio plus PTT & COR signals to a remote device over the IP network.

In this mode, the unit behaves similarly to a one or two channel version of the popular JPS NXU-2B and ARA-1 units, but with the many additional features of IP-to-IP capability.

LOCAL MODE

In Local Mode the RSP-Z2 can create a local patch between its two local interfaces (radio-to-radio or radio-to-IP connection).

This simple cross-connected patch between local resources can be expanded with the Cross-Connected with Backhaul configuration. This backhaul links to a remote IP-based resource, such as a SIP phone, a JPS RoIP connection, or a Push-to-Talk over Cellular (PoC) application.

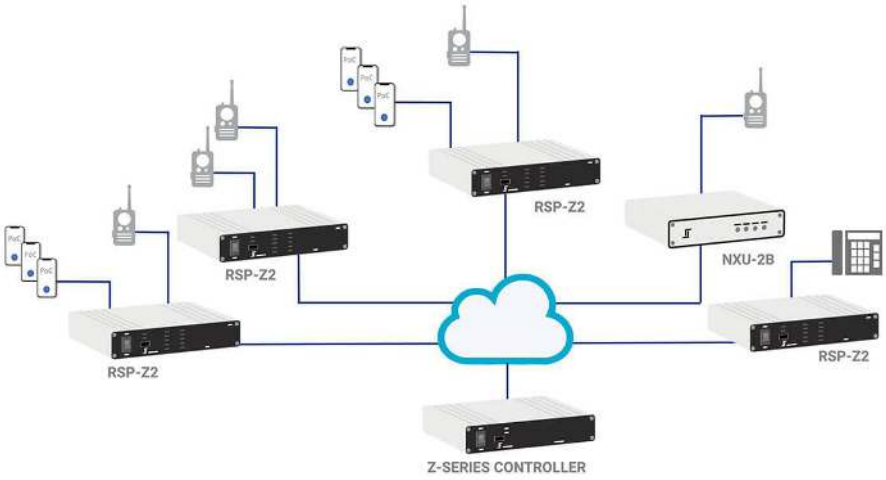
KEY BENEFITS

- Supports: Radio interfaces, four wire interfaces, PoC SIP, RTP, or RoIP connections
- Use a PC, Smart Phone, or Tablet for configuration and control
- Single Ethernet port and IP address supports both channels
- Monitor/dispatch with specified USB wired/wireless headsets
- Includes JPS radio interface algorithms developed over several decades as the leader in radio interoperability
- Uses standard JPS radio interface cables
- Remotely interfaces radios or other devices to other RSP-Z2 units or JPS gateways
- Compatible with all JPS RoIP interfaces
- Convenient net presets
- Encryption optionally available for JPS RoIP and Bridge audio

APPLICATIONS

IP-based resources and backhauls from RSP-Z2 Gateways easily integrate into wide area interoperability communications streaming through a Z-Series Controller.

The Z-Series Controller allows the operator to create interoperability nets, perform one- or two-way dispatch operations, or monitor these resources easily.



As pictured, the RSP-Z2 functions as a pair of independent Radio-to-IP or IP-to-IP interfaces. Although there is a single RJ-45 Ethernet Port and IP address for each RSP-Z2, each IP path remains independent from the other. JPS Bridge and JPS RoIP transfer protocols offer flexibility for varying system requirements.

SPECIFICATIONS

Size and Weight

1.5”H x 7.75”W x 6.5”D (38 x 200 x 165mm); 2.0 lbs (0.9kg)

Input Power

+11 to +15 VDC at 1.5A max.; 12VDC power supply provided (100-240 VAC input)

Audio Vocoders

GSM (13 Kbps), PCMU/G.711 µLaw (64Kbps), PCMA/G.711 aLaw (64Kbps)

Impedance

Input: Balanced 2.2kΩ, transformer coupled
Output: Unbalanced 600Ω, AC Coupled