RSP-Z2™
Dual Channel Interoperability Gateway

JPS Interoperability Solutions

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.

Overview

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 Passthrough Mode

When used in the Independent Passthrough Mode, the RSP-Z2 essentially acts as a pair of independent IP data streams, able to transfer audio plus PTT & COR signals, via IP, from local radio or other analog sources to remote devices.

In this mode, the unit behaves similarly to a one or two channel version of the popular JPS NXU-2A and ARA-1 units, but with many additional features, and with room for expansion to include many more.
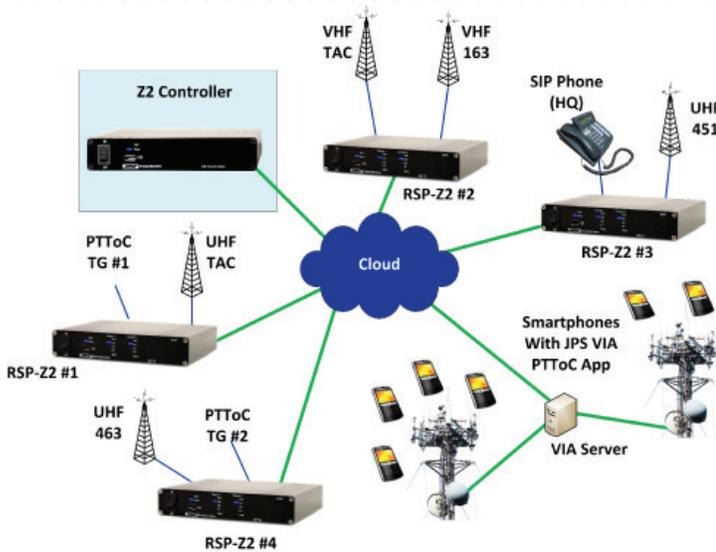
Cross-Connected Mode

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

The unit's two analog ports can be cross-connected, creating a local radio-to-radio patch that can be remotely controlled and monitored, or even patched to other devices.

This dynamic patching capability can be controlled and its audio monitored via the unit's web-based graphical user interface. Audio from this local patch can also be connected to additional radios or other devices interfaced by additional RSP-22 units or by a JPS radio interoperability gateway.

Benefits

- Intuitive web-based GUI with SSH capability, powered by a Linux OS

- Supports: Radio interfaces, 2/4-wire interfaces, SIP, RTP, or RoIP connections

- Single RJ-45 connector & IP address supports both channels

- Can use a PC, Smart Phone, or Tablet for configuration and control

- USB port supports software upgrades and 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 and JPS gateways, including the new Z2 Controller

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Below: Through the Z2 Controller GUI, an operator can create interoperability nets by drag and drop operations on icons that represent each of the system endpoints that are interfaced by the RSP-Z2 units.

An operator can also perform dispatch operations on all endpoints. Icons can be individually set for full two-way communications or monitor only.

Above: Multiple RSP-Z2s, along with a single Z2 Controller unit, can be connected to create a wide area interoperability system with as many as 80 endpoints. This image shows a small system with eight different endpoints interfaced via four RSP-Z2s.

Above: The RSP-Z2 functioning as a pair of independent Radio to IP interfaces. There is a single RJ-45 Ethernet Port and IP address, but in the Independent Passthrough Mode, each path remains independent of the other. The transport protocol for each path (RoIP/SIP/RTP) is user-configurable, offering flexibility for varying system requirements.

Below: In Cross-Connected Mode, the RSP-Z2 can patch together its two analog ports. If desired, this combined audio can be sent via IP in a single stream, using the desired transport protocol.

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