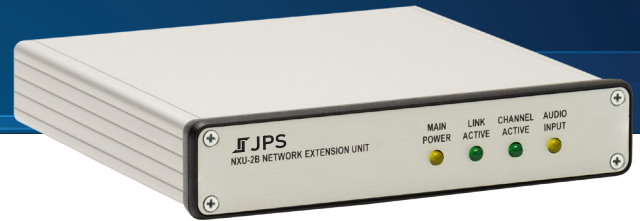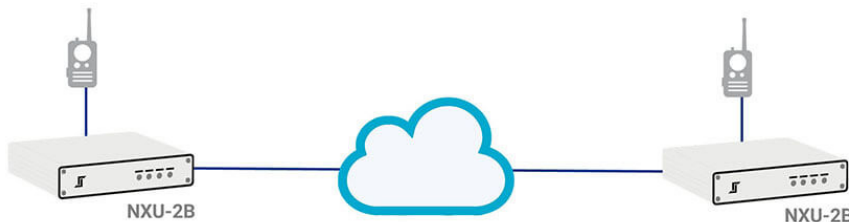# NXU-2B™

INDUSTRY LEADING
RADIO OVER IP DEVICE

JPS

OVERVIEW

The NXU-2B expands upon JPS' industry standard RoIP gateway to provide the most efficient means available to transport communications across any private IP network. Compared to its predecessors, the NXU-2B contains modern components as well as a set of features that support simple remote setup and troubleshooting of communications systems.

The NXU-2B connects communications equipment across an IP network using JPS RoIP technology. It is intended for use with radios or other four-wire devices and JPS products such as ACU interoperability gateways. The NXU-2B supports multiple vocoders, offering superior audio quality with a minimal use of network bandwidth.

KEY BENEFITS

+ Drop-in replacement for any application requiring an NXU-2A, with new features

+ Multiplexes audio and data over a standard Ethernet network

+ Allows use of existing network infrastructure, eliminating the need for leased lines and microwave sites

+ Directly interfaces to over 300 types of radios/other devices using JPS audio interface cables

+ Advanced audio modulation settings such as adjustable TX/RX audio levels, delays, and VOX or VMR

+ Transports RS-232 data to support remote control and supervisory capabilities

+ Dual GPIO provided for additional auxiliary functions

+ Compatible with all JPS RoIP interfaces

ACCESSIBILITY

The NXU-2B adds and upgrades previous NXU version components and features to support simple remote setup and troubleshooting of communications systems. New features include the ability to set audio levels and to reboot the device remotely, as well as improved security options.

Features include 600Ω balanced input and output and PTT relay, in addition to solid state keying. The NXU-2B does not require the audio crossover adapter for use with standard JPS radio interface cables. All configuration settings are accessible through the device's browser-based user interface.

VERSATILITY

Designed to provide a low-cost, flexible method for extending radio communications over existing network infrastructure, the NXU-2B is in fact quite versatile. JPS NXUs are deployed in everything from trunking to multicast applications, to leased line replacement and wide area interoperability solutions.

The NXU-2B offers superior audio quality with a minimal use of network bandwidth. Its browser-based user interface makes advanced optimization settings easily adjustable. This includes audio level, audio delay, and voice modulation recognition (VMR) in addition to voice operated transmit (VOX) noise detection or hardware unsquelch.
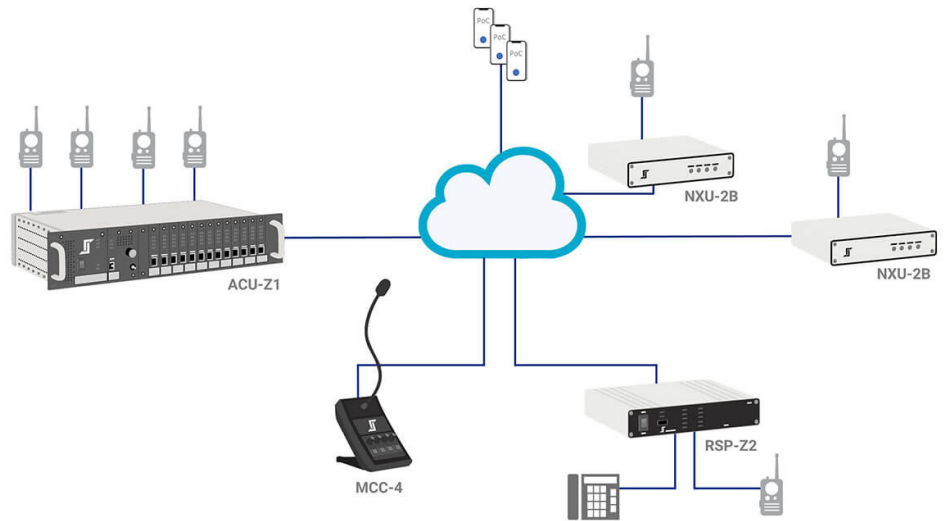
APPLICATIONS

The NXU-2B is designed for years of continuous operation at remote locations, supporting a wide variety of mission critical applications. These include bridging remote radio systems together as well as tying radios via IP to console interfaces or Push-to-Talk over Cellular (PoC) platforms.

The NXU-2B plays a vital role in JPS wide-area solutions, such as this ACU-Z1 interoperability system. The NXU-2B digitizes LMR audio to the JPS RoIP protocol that is then streamed to/from the ACU-Z1. This allows the radios interfaced to the NXU-2Bs to communicate with all other members of the system.

NXU-R

Rack Mounted NXU-2B

The NXU-R provides the convenience of a rackmount hardware chassis containing up to four factory-installed NXU-2Bs all powered by a single 48V source. Front panel LEDs and rear panel connectors are labeled identically to those on the NXU-2B.

SPECIFICATIONS

Size and Weight
1.7"H x 6.5"W x 6.5" D (4.3 x 16.5 x 16.5cm); 1.1lbs (0.5kg)

Input Power
+11 to +15VDC @ 0.5A max. 12VDC wall cube supplied

Audio Vocoders
GSM (13 Kbps), G.723 ADPCM (16, 24, 32 Kbps), G.711 (64 Kbps)

Impedance
Input: Balanced 600Ω or 47kΩ, transformer coupled
Output: Balanced 600Ω, AC coupled