AirNetix

STS-200-TXRX
Wireless Audio Transceiver/Repeater

Features:

◊ Transmitter, Receiver, Repeater all in one enclosure

◊ Point –to-point, point-to-multipoint, or point-to-point-to-point RF links.

◊ High quality stereo audio channels

◊ Up to 500 mSec of delay per RF link

◊ Full over-the-air remote monitor and control of all settable functions

◊ Fully weatherproof (IP-67/68) in a rugged aluminum enclosure.

The STS-200-TXRX Transceiver is a wireless digital audio transmitter, receiver, repeater all in one enclosure. It has the same radio architecture used in the AiRocks Pro, StreetSounds, and STARX line of wireless audio products. The STS-200-TXRX can be configured to be the main transmitter, a receive-only radio, or a "repeater" which is used to help propagate the RF signal further than a single RF link can travel. This novel architecture is used in hundreds of wireless audio networks across the US and Canada.

Audio links can be established that are "point-to-point", "point-to-multipoint", or "point-to-point-to-point" by enabling the repeater functionality. In a point-to-multipoint application, the number of remote receivers is unlimited.

The STS-200-TXRX is housed in a rugged aluminum enclosure that is IP-67 rated for permanent outdoor installations. It is small enough (4.24" wide x 5.5" long x 2.5" tall) to be used in almost any application from Mobile Sound Production to corporate indoor or outdoor environments.

The STS-200-TXRX carries two high-quality audio channels and provides line-level input and/or outputs depending upon how it is configured. Line-level audio is inserted into the unit when configured as a transmitter, or sent to the outputs of the unit when configured as a receiver. When acting as a repeater, the audio can be taken from the audio outputs while the RF signal is retransmitted to the next radio.

In addition to the outbound audio channel, there is a two-way control channel that gives you full control over every element in the network. This includes monitoring received signal level/quality at any remote unit, changing audio gain, monitoring temperature, and adding/modifying audio delay into the link when used in live audio applications that require delay compensation. Each link can introduce up to 500 mSec of delay, which can be added to the delay of the previous link for longer hops.

The powerful Network Management System (NMS) is a PC-based application that gives you full visibility and control over the network of devices. The NMS includes a spectrum monitor (analyzer) to measure local interference, a Scheduler for time-of-day, day-of-week management of muting remotes, a Message Player for playing pre-recorded message (ads, spots), and a sophisticated Alarm system for sending alarms via text or email to the network operator.

STS-200-TXRX Transmitter Configuration

Shown below is the STS-200-TXRX Master Transmitter configuration. The diagram shows the optional StreetSounds Indoor Unit (IDU) Breakout box for the insertion of AC or DC power, stereo audio, and USB connection for the Network Management System, as well as an optional 150' shielded Cat5 cable that allows the STS-200-TXRX unit to be mounted on a pole high above any obstructions.

STS-200-TXRX Receiver Configuration

Shown below is the STS-200-TXRX Receive configuration. The diagram shows the included "Y-cable" which breaks out DC power input for the included AC/DC adapter, and stereo audio output (3.5mm connector). The short blue Cat5 cable can be several hundred long (user provided).

Optional STS-200-TXRX Wall/Pole

The optional Wall/Pole Mount Kit includes a stainless steel mounting bracket for the STS-200-TXRX, 4 #10 stainless steel mounting bolts, and a 3.5" stainless steel mounting band for attaching the mount to a 2.5" pole. Mounting holes are provided for the "Superclamp" shown below (user-provided).