

RTS Intercom Systems shows the SIP-ISDN telephone interface

October 2009

ST/SEC-MKT

Straubing – RTS is proud to show the SIP-ISDN. The SIP-ISDN succeeds the ISDN-2005 telephone interface, and adds support for SIP (Session Initiation Protocol). The SIP-ISDN incorporates an ISDN basic rate interface (1x S0) and a LAN interface. Having both of these interfaces available enables greater flexibility when setting up an intercom system on an existing network. The SIP-ISDN uses G.711 and G.722 audio codecs for bidirectional communications.

Separate transparent data channels with RS232 or RS485 interfaces are available for each 7 kHz G.722 audio codec. These data channels can be used for remote keypad control and for linking a matrix to a trunkmaster system.

Features of the SIP-ISDN include:

Operation

The SIP-ISDN can be configured via the front keypad as well as from PC software. Using the front keypad is similar to using a mobile phone. This enables greater ease of use by incorporating a familiar interface. Configuration via the intuitive PC software is a convenient option for network administrators. The system also incorporates a telephone directory system with various functionalities.

7 kHz encoding

In the 7 kHz encoding mode, a data signal can be transmitted in addition to audio. Both the RS232 and/or RS485 data interfaces are available to maximize compatibility with existing networks.

3.1 kHz encoding

In the 3.1 kHz encoding mode, the system detects the DTMF (Dual-Tone Multi-Frequency) tones received from a standard phone or an IP phone. The SIP-ISDN then converts the tones into the RTS protocol and enables the user to control keypanels on the intercom network.

ISDN network interface

In the ISDN operation mode, two audio and data signals can be transmitted over a single BRI (Basic Rate Interface) channel.

LAN network interface

In LAN operation mode, the SIP-ISDN works with the SIP protocol according to the EBU (European Broadcasting Union) standard. If an SIP server is available, the telephone number can be used for dial-up. If an SIP server is not available, the IP address can be used.

Operating modes

The following modes are available for remote control of RTS Intercom components:

- Remote keypanel control by telephone
- Remote matrix control by keypanel
- Matrix to matrix audio link
- Matrix to matrix audio link with trunkmaster control
- High quality mode with apt-X module (optional)

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