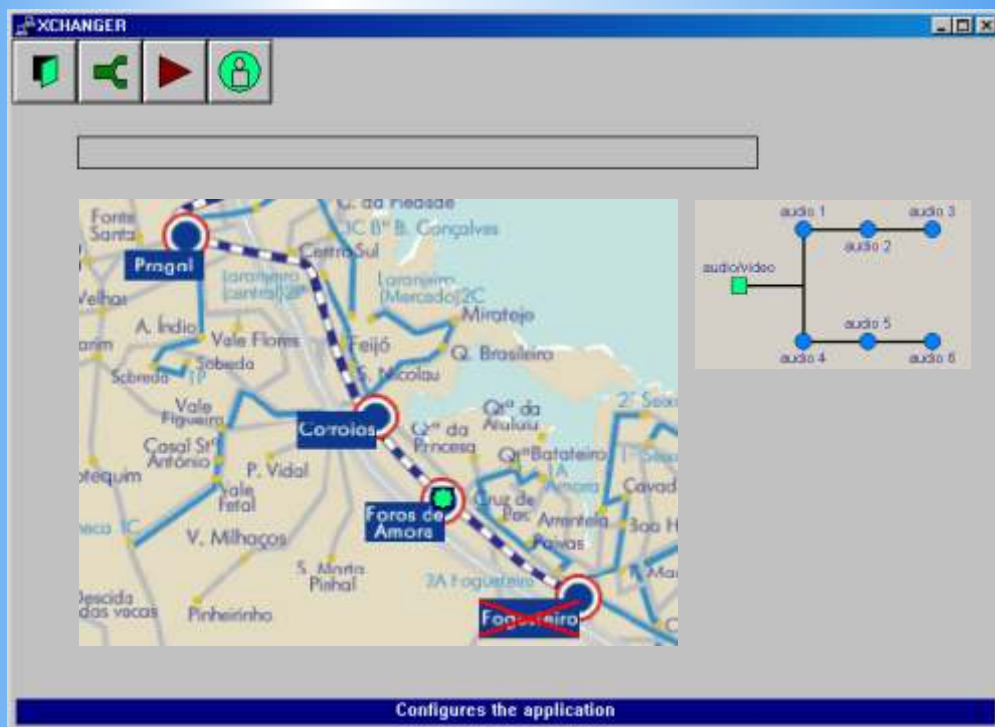


## XCHANGER

Digital Audio Point-to-Multipoint  
Codec



**Acutron**®  
digital audio

## DESCRIPTION

The XCHANGER audio codec is a device capable of bi-directional communications using two compressed audio channels plus two high speed V.11/V.28 serial ports to a remote identical device by means of a V.36 line (optionally doubled by an auxiliary V.28 control port) as a transmission media.

## APPLICATIONS

- ❑ In distributed PA systems where distances are huge and audio and control signals has to be distributed from a Central dispatch to several different destinations.
- ❑ As a fixed audio signal link.

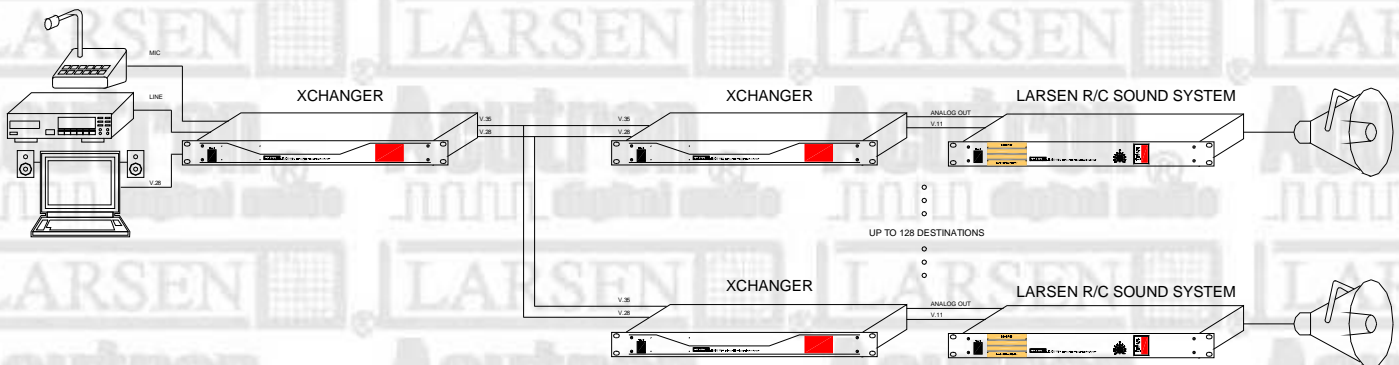
## FEATURES

- ❑ Unique ID allows remote addressing and sub-addressing (for example a destination site and a zone within the destination).
- ❑ Fully RF filtered.
- ❑ Uses the industry-standard V.36 protocol.
- ❑ DSP-driven with robust communication error-detection and correction.
- ❑ Configuration and ID kept in FLASH non-volatile memory.
- ❑ Paralell printer port for dumps
- ❑ Selectable analog inputs for both microphone level and line level.
- ❑ Digital V.11/V.28 at 115 000 baud carries both audio and control to/from the unit.
- ❑ The V.36 can carry the entire signal, or the ancillary V.28 port may be used for control purposes only.
- ❑ 24-bit converters
- ❑ Fully EN55103 compliant according to 89/336/EMC
- ❑ Internal AGC, noise gate, anti-aliasing and anti-imaging filters.
- ❑ LCD display and keyboard for local programming
- ❑ High-speed 4:1 compression algorithm.
- ❑ May use hardware or software framing.
- ❑ SERIAL Windows™ configuration software included

## SPECIFICATIONS

Nominal output level	0dBu/0dBFS
Gate threshold	Mic-25dBu at 12dB gain
Maximum Input	Mic-9dBu Line+3dBu
Conversion Resolution	24-bit 16-bit
Frequency response	100Hz-6.5kHz ±1.5dB (16kHz sampling rate)
Baud rate (V.11, V.28)	115kbaud maximum
CMRR	>40dB, 20Hz-20kHz
THD+N	<0.04% 1kHz
Noise	<-70dBu
Analog Overload level	+10 dBu
Equalizer	±15dB at 200Hz/4kHz affected by bandwidth
Limiter	Threshold 40/0dBu hold=2S, release=5S
Noise compensation	0 to 40dB
Bit rate	128kbit at 16kHz sampling rate 2 channels
Line Interface	V.36+V.28
Terminal interface	V.28, V.11
Physical	19" rack, 1U 200mm depth
Weight	3.0 Kg
Power supply	230VA @ 5VA
Operating temp.	0-40°C

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XCHANGER APPLICATION: POINT-MULTIPOINT MULTICHANNEL APPLICATION

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