

## TSIP AMPLIFIED IP MATRIX



**TSIP** is a double IP audio decoder which integrates 2 x 100 Volts mono outputs with built-in 120 Watts amplifiers. This amplified IP matrix is directly linked to the speaker line which enables reduction of costs and clutter.

Thanks to its standard RJ45 interface, the TSIP is directly connected to the network. A built-in web browser interface allows simplified control and programming of the unit. The DSP based architecture enables management of new codecs. SIP protocol enables compatibility with the standards of digital telephony. TSIP is fully programmable via a VNB control protocol, the event scheduler, commands and variables.

TSIP is perfect for applications such as:

- An IP audio decoder for up to 3 zones
- A source selector by combining it to a RAC wallmount remote controller
- An amplified message reader triggered by a contact input

In addition, using Vox@Net audio software enables TSIP to act as a 2 zones matrix. Connected to an external amplifier, the 0 dB output enables to manage 3 independent zones (third zone is not monitored). TSIP can also be used as a standard matrix to route a 0 dB input thanks to a contact input, such as a pre-amplified single zone paging microphone PM1. Audio inputs can work with modulation detection and support powered microphones (electret for input 1, phantom for input 2). Each input is fitted with configurable AGC and Noise Gate. TSIP can store up to 60 minutes of messages in PCM 16 bits 16k Hz or 240 minutes in mp3 64 kbps. All messages are monitored. Broadcast priority is configurable for each source (audio inputs, IP streams, messages). The monitoring module detects power supply failure, contact faults, amplification faults (gain), 100 V line faults (open circuit, short circuit, impedance, leakage). Contact inputs can be programmed as logic, selector or analog mode for actions triggering, source selection or gain adjustment.

Contact inputs and relay outputs are fully programmable and can be managed locally or via a VNB control protocol. RS232 connexion allows third party control (IP gateway or control interface). System will be capable of status report on contact outputs (faults, evacuation, ...). TSIP can be powered by 230 V or 24 VDC power supply with automatic switching in case of power supply loss.

A touchscreen front panel allows:

- Lines and amplifiers monitoring
- Test message broadcasting
- Audio sources listening from the speaker located on front panel
- Status and history checking
- Faults display



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## CHARACTERISTICS

• Ethernet interface: RJ45 10/100 Mbits/s with PoE (Power over Ethernet)	
RS232 for third party control	
2 contact inputs (contact, monitored, selector or analog)	
• 2 isolated voltage inputs (activation between 18 and 30 VDC)	
• 2 relay outputs N.O. + N.C.	
Limits: 30V, 2A	
3.5" front panel color touchscreen	
LEDs: Power, Ethernet Link, Faults (General, Line monitoring, Evacuation     by line, Power supply monitoring, monitoring, disabling)	
Main power supply: 230 VAC 50Hz 2.4A	
<ul> <li>Back-up power supply: 24 VDC 15A (not provided)</li> </ul>	
Electrical protection by fuse	
• 24 VDC 0.5A output	
• 230 VAC power consumption: max 280 W, stand-by mode: 20 W	
• Operating temperature: -20 °C / +55 ° C	
• MTBF: 140000 h	
• Active cooling: 2 x 60 mm ventilators, aspiration on front panel, extraction on rear panel	
• Dimensions (D x H x W): 435 x 90 x 420 mm	
• Weight: 10 kgs	

SUPPORTED CODECS	SUPPORTED PROTOCOLS	
Linear PCM 16 bits	802.1 - Ethernet	RFC 1945 - HTTP 1.0
G.711, G.722, G.729ab	802.3af Power over Ethernet (15.4 W)	RFC 2236 - IGMP v2
Speex Wideband	RFC 1157 - SNMP v1	RFC 5506 – RTP
MP3	RFC 1213 - MIB II	RFC 3261, 3264, 4566 - SIP 2.0 and SDP



REAR PANEL



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