

DTS14/04

Four channels Dante™ to SIP interface



Overview

The unit allows the conversion of up to 4 digital audio streams received through the Dante™ interface into the SIP protocol and its transmission to other devices.

The received stream can also locally recorded as files.

The rack module DTS14/04 can be used typically for interfacing Public Address Systems sound-based audio with Dante™/OMNEO protocol with IP telephone IPBX, thus allowing to recording messages.

Features

- Standard SIP interface
- Up to 4 SIP channel simultaneous conversion
- 2U Standard Rack EIA
- Digital audio output based on Dante™ interface.
- Status Led
- Digital contact input for incoming calls

Functionality

The unit receives Dante™ digital audio stream calls through dedicated network interfaces and converts digital audio stream into SIP protocol making it available to other SIP devices on its network. The received stream can also record as files and stored on internal memory card.

The call start can be triggered with the input contact (one for each channel).

To increase efficiency, the DTS14 module is equipped with a dual network interface for the Dante™ part, and the SIP interface can manage a registration with two IPBX server.

The device can be used with the ACP-2320 Intercom Server to record the announcements from PA system.

In this configuration the audio announcements received through from Dante™ channels are sent to ACP-2320 server (in SIP format) and stored as recorded file.

If the connection with server is not active during an announcement the audio will be recorded in the internal memory card on DTS14 and then when the connection will become reachable the recorded file will automatically be transferred to the server.

Using the device with IP-PBX server it is also possible forwarding an audio announce from a PA console to remote SIP devices.

Diagnostic

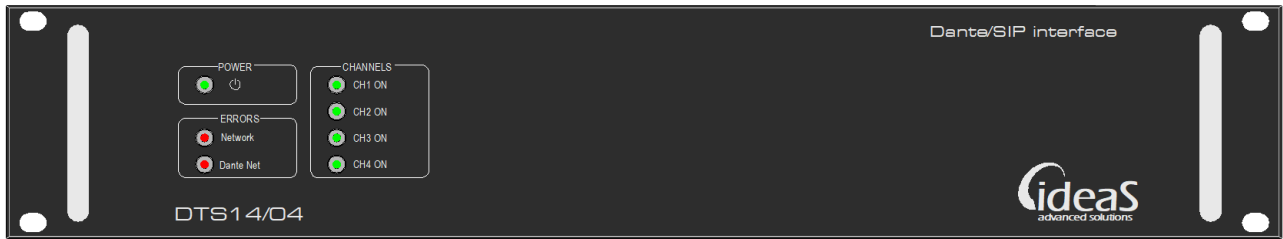
The unit is able to monitor the following types of alarms:

- Dante error - indicates an error in the Dante™ network
- SIP error - for each configured SIP channel indicates an error in SIP management (ex. Missing registration to the IPBX)
- Local memory card error

These errors are reported via the SNMP protocol.

DTS14/04 Layouts

Front View



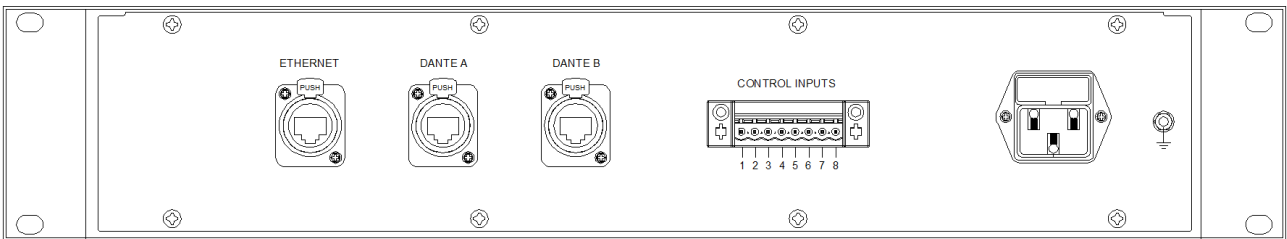
POWER: Power led indicator

ERRORS:

- Network: SIP network error
- Dante: Dante™ network error

CHANNELS: Each led indicates the audio input channel status (led on, call in progress).

Rear View



Ethernet: SIP network interface

Dante A e B: Redundant Dante™ network interface

CONTROL INPUTS: Digital control inputs, one for each channel, normally close during a call in progress on channel

MAINS: 230VAC input with fuse holder.

Connections

Pinouts for contacts INPUT

PIN	PWR
1	Digital contact input (common) call from channel 1
2	Digital contact input (NO) call from channel 1
3	Digital contact input (common) call from channel 2
4	Digital contact input (NO) call from channel 2
5	Digital contact input (common) call from channel 3
6	Digital contact input (NO) call from channel 3
7	Digital contact input (common) call from channel 4
8	Digital contact input (NO) call from channel 4

Configuration

The configuration of the SIP interface parameters takes place via its own WEB page.

For the setting of the SIP parameters it is therefore sufficient to connect via the browser to the device.

For each SIP channel (up to 4) that you want to use, simply set the connection parameters for the SIP registration.

Up to 2 SIP servers can be set up for each channel at the same time, so as to guarantee redundancy in the event of a server failure.

Through the WEB interface it is also possible to set the network parameters on the SIP side and check the status connection registration.

The Dante™ Controller program must be used to set the IP address of the Dante™ interface.

Specifications

Mechanical

Color	Front panel: Black
Dimension	Standard rack 19" – 2U 88x483x300mm (HxWxD)
IP Grade	IP30

Electrical

Voltage Range	85 ~ 264VAC
Frequency Range	47 ~ 63Hz
Max power:	15W

Interface

Nr. 1 LAN Port RJ45 for SIP network interface
Nr. 2 LAN Port RJ45 for Dante™ interface

Protocols

SIP, RTP, UDP, TCP/IP, NTP, FTP, SNMP
Supported codec: G711, G722
Dante™ /OMNEO

Controls

Nr. 4 Digital inputs, one for each channel, normally close during a call in progress on channel.

Environment

Working temperature:	-5 to +55 °C
Storage temperature:	-40 to +70 °C
Working Humidity:	15% to 90%
Pressure:	600 to 1100hPa

Safety & EMC

Electromagnetic compatibility:
EN55103-1/FCC-47 part 15B
EN55103-2
EN50121-4
EN50130-4

Electrical safety:
IEC60065 (CB-scheme)
EN60065

Approvals: CE marking

MTBF 86,000 hours at +55 °C