Remote Audio Module (RAM2)
NRAM2-AAAA

Features

- De-multiplexes 31 audio channels or 16 audio channels with 15 voice announcement channels on the first 8 IAM addresses.
- Connects directly to an Intelligent Address Module (IAM2 or later)
- Audio bus connection by means of RJ 45 connector
- Buffering amplifiers for each address

- Individual volume setting for each address

- Standard Ascom housing

Description

The Remote Audio Module (RAM2) is contained in a standard Ascom housing. It is the interface between the audio distribution network and the IAM (Intelligent Address Module).

The RAM2 de-multiplexes the digital data from the digital audio bus and converts the data back to analogue audio signals. It also serves as a repeater for the data signals on the audio bus.

One RAM2 is necessary for every IAM that requires audio distribution. The RAM2 is connected to the IAM by a ribbon cable with a 34-pin plug.

The RAM2 is a self-contained module that does not require any configuration.

Application

The RAM2 serves the first 8 addresses of the connected IAM. It selects the chosen channel and controls the personal volume settings.

The RAM2 will only present the channels that are selected on the Central Audio Multiplexer (CAM).

When a Voice Announcement Module (VAM) has been included in the audio system the RAM2 will play a voice announcement signal with a maximum duration of 6 seconds before it switches to the selected channel. Voice announcement confirms the selected channel when a new channel is selected.

When the RAM2 is connected to an IAM that supports speech, the speech will override the audio channel selection. When the conversation is finished the audio signal will automatically be reinstated at the earlier selected channel and volume.

Technical specifications are listed on the following page

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Technical Specifications

Dimensions: 130 x 275 x 60 mm (w x h x d)

Body material: PC/ABS

Body colour: Grey / black

Operating voltage: 24V / DC nominal
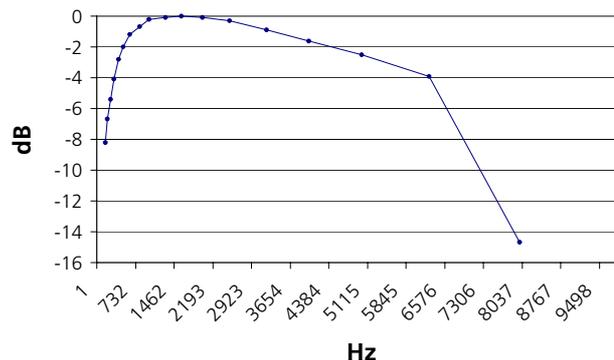(range 18V to 30V / DC)

Idle current: 100 mA at 24V

Maximum current: 500 mA at 24V

Audio bandwidth: 200 Hz - 6400 Hz

Crosstalk: Better than 40dB

Frequency curve:

Visuals: green LED: Operating normally   orange LED (flashing): Bad data
red LED: No IAM   orange LED: Startup
red LED (flashing): No data

Transmission cable: 4 pairs of UTP (CAT5)

Maximum cable length: 300 meter from CAM to first RAM, and from RAM to RAM
4 pairs of UTP (CAT5), only two pairs are used

Electrical connections: j1: 2x5-pole pin-header (for program updates)
j2: 8-pole RJ45 (digital audio bus "in")
j3: 8-pole RJ45 (digital audio bus "out")
j4: 34-pole pin-header (for the ribbon cable connector to IAM)
j5: 4-pole detachable screw terminal ("power")

Environmental: 0 - 40°C / 80% humidity

Standards and certification: CE

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