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EST-xAudIO-4/8-RS

Function card 4 audio input / 8 audio output

Overview

This audio intput/output card is destined for a function slot of EST-CU-8LCD. It offers 4 line audio inputs via an RJ45 connector as well as 8 symmetrical outputs via an RJ45 connector for leading out audio signals to the external devices or amplifiers of the EST ENT VES system. The card is also equipped with an RS485 interface with the help of which the EST ENT VES system can be controlled or integrated with devices offered by other producers.

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Technical specifications

Electrical

Current consumption	typically 100 mA at 48 V
Source of power	EST-CU-8LCD Control Unit main backplane

Physical

Physical dimensions	70 x 160 x 25 mm (W x H x D)

Environmental

Operating temperature	0°C to +70°C
Storage temperature	-20°C to +70°C
Operating humidity	15% to 80% non-condensing
Storage humidity	5% to 95% non-condensing

Standards & regulation

Standards	EN54-16

Audio input

Number of audio inputs	4
Type of audio inputs	Differential
Type of connector	1x RJ45
Input impedance	≥ 10 kΩ
Input voltage	3 Vrms max.

Audio outputs

Number of audio outputs	8
Type of audio outputs	Symmetrical
Type of connector of audio inputs	2x RJ45
Pass band	20 Hz – 20 kHz (at 1 dB) / 400 Hz – 8kHz (at 0,1 dB)
Non-linear distortion (THD+IMD)	≤ 0,05%
Reserve output power (headroom)	10 dB
Relation signal/noise	≥ 90 dB
Channel separation	≥ 80 dB
Output impedance	600 Ω

RS485 interface

Number of seats	1x RJ45
Transmission speed	≥ 19200 bps
RS485 connector supply	48 V with current efficiency 2 A

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