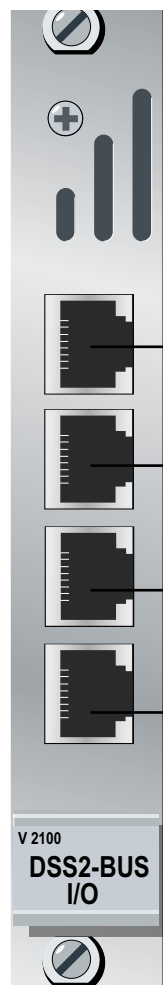


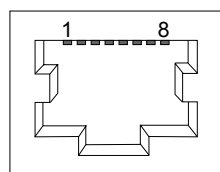


DSS BUS I/O CARD 48 V FORMAT FOR VADIS

V2100



RJ45 connectors
for the connection
of the DSS
busses to the line
interface



Description

The 48 V DSS bus I/O card V 2100 is a plug-in card for VADIS V210C-HDD and V880 mainframes. Via the V 2100 DSS (digital speaker system) bus card, audio and control data are exchanged between the VADIS system and the DSS bus. The DSS bus is a proprietary bus system for the distribution of audio and control data to and from powered modules. The DSS bus I/O card provides 4 busses. Each of these busses is connected to a line interface input. The line interface adds the power supply to the audio and control data coming from the VADIS frame and outputs the extended data via its bus outputs to the DSS bus modules. The exchange of control data is fully bidirectional. Audio data however, can only be transferred from the VADIS frame to the DSS bus.

The V 2100 has the following functions:

- Transmission of audio and control data from the VADIS frame to the DSS bus modules
- Transmission of control data from the DSS bus modules to the VADIS frame
- Monitoring of the supply voltage of the line interface
- Monitoring of the states of the DSS modules

Specification

Number of DSS busses	4, differential, RS422 with pre-emphasis
Connectors	4 x built-in RJ45 connectors, 8-pin, female
Audio resolution	24 bit max.
Number of audio channels	4 x 8 channels @ 16 bit audio resolution
Data rate	7.5988 Mbit/s
Sample frequency	48 kHz
Power supply current	5 ± 0.5 V
Current	350 mA @ 4 busses used typically.

Pin configuration

RJ45 8-pin, female

- Connector J2 = connector to bus 1
- Connector J4 = connector to bus 2
- Connector J5 = connector to bus 3
- Connector J6 = connector to bus 4

Pin	Signal
1	TX+
2	TX-
3	RX+
4	GND line interface
5	GND redundant line interface
6	RX-
7	48 V line interface
8	48 V redundant line interface

A&E Specs

The specified DSS buss output card for the Atlas Sound Varizone system shall be the model V2100.

Output busses shall total (4). Each bus shall be capable of transmitting 8 channels of unidirectional audio from the Vadis frame @ 16 bit resolution. Control and buss component monitoring shall also be relayed to the VADIS frame via the DSS buss communication path provided by the V2100. Sample frequency shall be 48 kHz. Output connections shall be RJ45 (x4).

Technology by KLOTZ
DIGITAL

Specifications subject to change without notice



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