

V 2305, V 2305/1

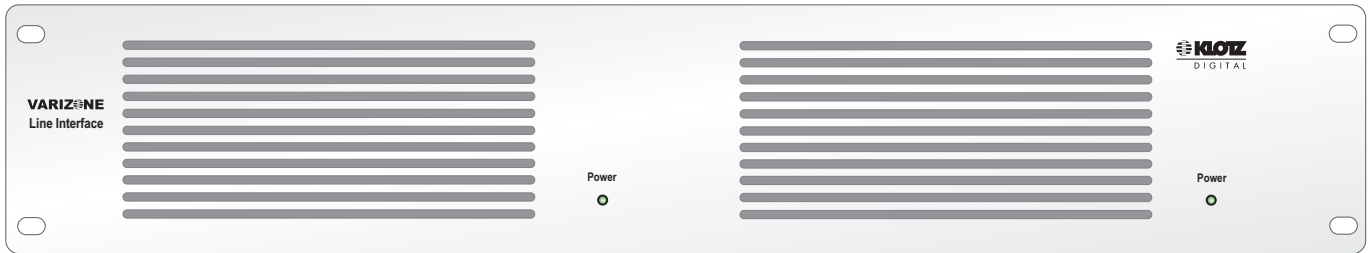


Figure 1: V 2305 line interface 1000 W / 48 V

Description

The V 2305 line interface 1000 W / 48 V belongs to the VARIZONE product line. The V 2305 serves as an interface between the VADIS system and the OCTO-BUS / digital speaker system (DSS) bus. The 1000 W line interface has the following functions:

- Adding of power to the audio and control data coming from the VADIS frame
- Distribution of the extended audio and control data to the OCTO-BUS/DSS bus lines

The maximum range of the line interface is 200 m / 660 ft*. After a maximum of 200 m / 660 ft* the data must be refreshed for further transfer on the OCTO-BUS/DSS bus.

The OCTO-BUS/DSS bus installation of the 1000 W line interface can be carried out either with CAT5 or with J-Y(ST)Y cables. The following table gives a survey of the available 1000 W line interface versions and the respective OCTO-BUS/DSS bus connectors and cables.

Version	Cable	Connector
V 2305	CAT5	RJ45 connectors
V 2305/1	J-Y(ST)Y	Phoenix type connectors

Main features

- VARIZONE OCTO-BUS and DSS bus device
- 1000 W total output power
- 125 W / 48 V output power per OCTO-BUS/DSS bus
- 19" rack mount housing
- 8 OCTO-BUS/DSS bus connectors, RJ45 or Phoenix type connectors as listed in the table above
- 8 RJ45 connectors for the connection to the VADIS OCTO-BUS/DSS bus I/O cards V 2100 and V 2300
- 2 PSU status LEDs
- Self-resetting fuse for each OCTO-BUS/DSS bus
- Monitoring of the PSUs via the control management software

* Depending on cable type

Specification

V 2305

Connectors

- 8 x 8-pin RJ45 panel connector, female, for the connection of the line interface to the OCTO-BUS/DSS bus I/O cards V 2100 and V 2300



NOTE!

For termination reasons the CAT5 connection cable between the line interface and the OCTO-BUS/DSS bus I/O card must not be longer than 2 m / 6 ft.

- 2 x 3-pin power panel connector, male, for the connection of the PSUs to the power supply system
- 8 x 8-pin RJ45 connector, female, for OCTO-BUS/DSS bus connection

PSUs

2 independent PSUs, each of them providing 4 OCTO-BUS/DSS bus lines with power

PSU status LEDs

2 status LEDs, green, for PSU status indication; The LED lights if the secondary voltage is OK. The LED remains unlighted if the secondary voltage is not OK.

The left LED indicates the status of the left PSU. The right LED indicates the status of the right PSU.

Input AC voltage range

90 V min., 264 V max.

Input AC voltage frequency

47 Hz min., 63 Hz max.

Input current

3 A min., 9 A max. per PSU @ max. output power

Output DC voltage

48 V typ.

Output power

125 W typ. for each OCTO-BUS/DSS bus output

Fuses

5 x 20 mm slow blow, high breaking, 250 V, 10 A, T10A H 250 V

Ambient temperature limits

0° C min., 40° C max. for the operation of the line interface

Meantime between failure (MTBF)

29.9 k hours typ. @ 40° C ambient temperature, calculated on the basis of the data sheet values of the components or according to MIL 217F

Dimensions

Depth: 449 mm / 17.68"

Height: 88 mm / 3.46"

Width: 483 mm / 19"

Weight

9.5 kilograms typically

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Connectors

- 8 x 8-pin RJ45 panel connector, female, for the connection of the line interface to the OCTO-BUS/DSS bus I/O cards V 2100 and V 2300.



NOTE!

For termination reasons, the CAT5 connection cable between the line interface and the OCTO-BUS/DSS bus I/O card must not be longer than 2 m / 6 ft.

- 2 x 3-pin power panel connector, male, for the connection of the PSUs to the power supply system
- 8 x 5-pin Phoenix panel connector, male, type MSTB 2.5 /5-GF-5.08 for bus connection.



NOTE!

The 5-pin female counterparts to the 5-pin male Phoenix panel connectors of the line interface, type MSTB2.5/5-STF-5.08, are included in delivery.

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2 independent PSUs, each of them providing 4 OCTO-BUS/DSS bus lines with power

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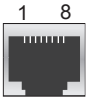
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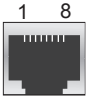
Pin configuration

V 2305

RJ45 connector 8-pin, female for the connection between the line interface and the VADIS OCTO-BUS/DSS bus I/O cards

Pin	Signal
1	RX+*
2	RX-*
3	TX+*
4	Power Good 1 (GND)
5	Power Good 2 (GND)
6	TX-*
7	Power Good 1 (48 V)
8	Power Good 2 (48 V)

* Referring to the line interface



RJ45 connector 8-pin, female for the connection between the line interface and the bus

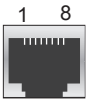
Pin	Signal
1	TX+ (GND)*
2	TX- (GND)*
3	RX+ (48 V)*
4	TX- (GND)*
5	TX+ (GND)*
6	RX- (48 V)*
7	RX+ (48 V)*
8	RX- (48 V)*

* Referring to the line interface

V 2305/1

RJ45 connector 8-pin, female for the connection between the line interface and the OCTO-BUS/DSS bus I/O cards

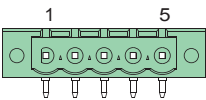
The pinouts of this connector are identical to those of the corresponding connector of the CAT5 cabling variant.



Phoenix panel connector 5-pins, male, type MSTB 2.5 /5-GF-5.08 for the connection between the line interface and the bus cable

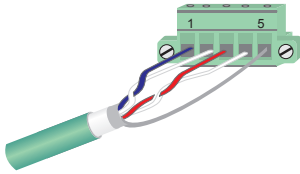
Pin	Signal
1	TX+ (GND)*
2	TX- (GND)*
3	RX- (48 V)*
4	RX+ (48 V)*
5	PE

* Referring to the line interface



**NOTE!**

The 5-pin female counterparts to the 5-pin male Phoenix panel connectors of the line interface are included in delivery.

**Phoenix connector 5-pins, female, type MSTB2.5/5-STF-5.08, counterpart to 5-pin male Phoenix panel connector of the line interface**

Pin	Cable wire	Signal
1	1	TX+ (GND)*
2	2	TX- (GND)*
3	3	RX- (48 V)*
4	4	RX+ (48 V)*
5	Shield	PE

* Referring to the line interface

Front view

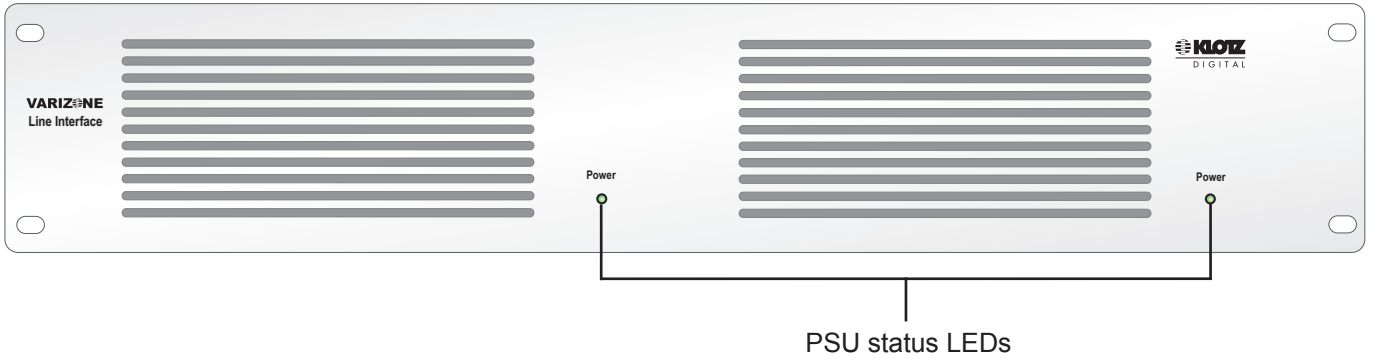


Figure 2: Front view of line interface V 2305 with PSU status LEDs

Rear view

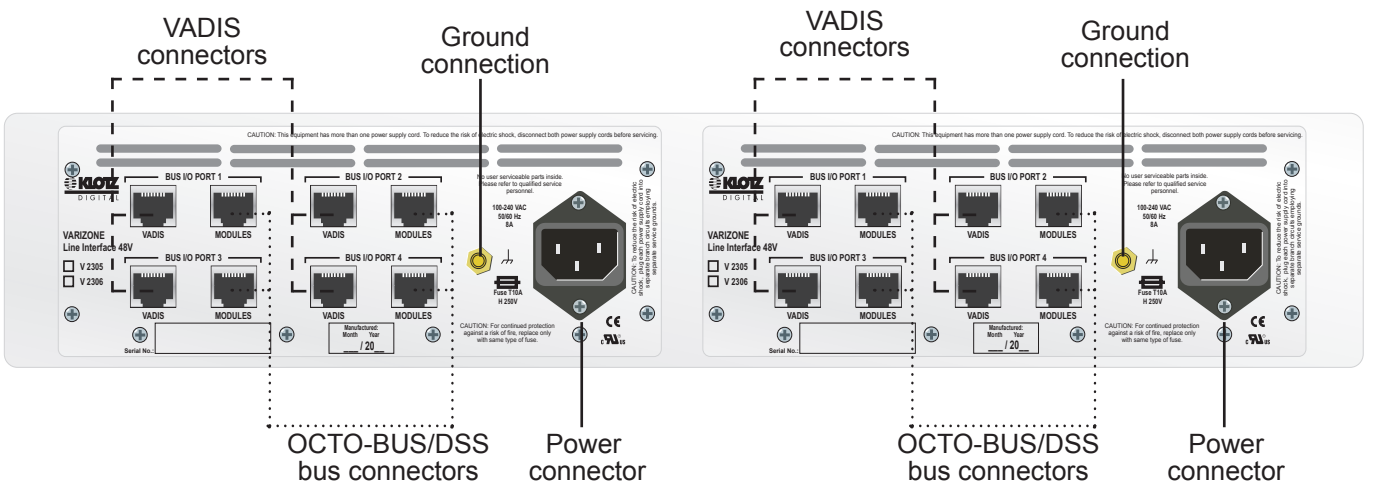


Figure 3: Rear view of line interface V 2305