



SYNCHRONIZATION CARD FOR V 880 FRAME

V180



Description

The synchronization card, V 180, is a basic plug-in modules for the VADIS 880 frame. The frame can be equipped with 2 redundant synchronization cards in order to increase the working reliability. The synchronization card provides the audio cards of a frame with the system clock signal and is, depending on the assembly, available as an audio/AES or as a video/AES card. The video/AES version is available on request. The following table provides an overview:

Version	Frequencies/kHz	Tolerance/ppm
Audio/AES	44.1	100
	48	100
Video/AES	44.056	100
	44.1	100
	47.952	100
	48	100

The V 180 synchronization card runs in 1 of 3 modes of operation whose activation is controlled via the VADIS software modes of operation:

Quartz master

In the operation mode quartz master the system clock signal of a VADIS frame is generated by a quartz oscillator on the V 180 card. The external BNC clock signal lines are operated as clock signal outputs. An inverse clock signal output can be realized via jumper settings on the V 180 board.

Internally synchronized slave

In the operation mode internally synchronized slave the synchronizing clock signal of a fiber optic card is used as the clock signal for the VADIS frame. The fiber optic card gets the clock signal from its input signal. The clock signal is regenerated by the V 180 card and fed into the frame.

Externally synchronized slave

In the operation mode externally synchronized slave the synchronizing clock signals of the AES11 input or of the redundant BNC inputs on the back of the VADIS frame are used. The clock signal is regenerated by the V 180 card and fed into the frame. The clock signal of the BNC inputs can be reversed via the jumper settings on the V 180 board. For redundancy purposes the AES11 and the BNC inputs can be fed with signals from the same clock signal source. If one of the clock signals fails, then it is automatically switched over to another clock signal input. By means of the jumpers it is possible to determine one of the following switch over orders:

- BNC1-BNC2-AES
- AES-BNC1-BNC2

Note

Before a synchronizing clock signal is connected with the BNC inputs, it has to be assured that the line is terminated with 75 Ω.

Technology by KLOTZ
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Specifications subject to change without notice



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Specification

Sampling frequencies

Video	44.056 kHz
Audio/video	44.100 kHz
Video	47.952 kHz
Audio/video	48.000 kHz

Input voltage / slave mode

Low level max.	0.8 V
High level min.	2.0 V

Output voltage / master mode¹⁾

Low level max. ²⁾	0 V
High level	4.75 V min. @ 75 Ω load

Output current¹⁾ 250 mA max.

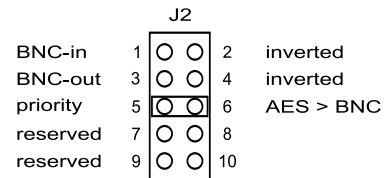
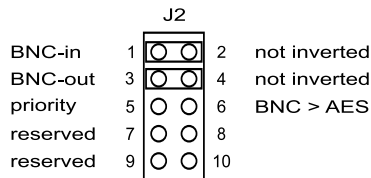
Power supply voltage +5 V ± 4%

Power supply current 300 mA typ.
500 mA max.

1) BNC sync output

2) Open emitter output

Jumper settings of the board:



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