

AUX-WORDCLOCK

BNC Wordclock I/O Extension Card
for FLX devices

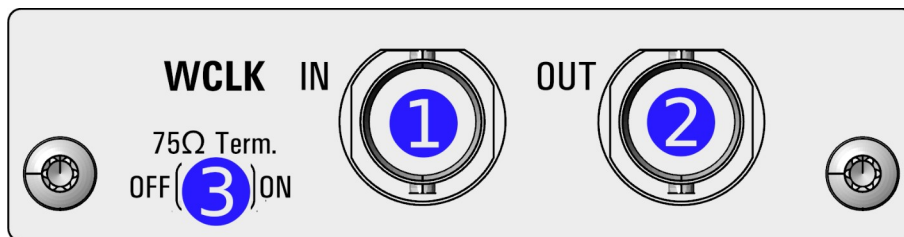
User's Manual

((en))

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1. CONNECTORS



① Wordclock Input

② Wordclock Output

Input termination switch.

- ③
- Set to ON when "IN" cable ends here
 - Set to OFF when "IN" cable is connected via BNC T-style adapter and goes further to another device

2. DESCRIPTION

The AUX-WORDCLOCK card provides wordclock I/O via BNC connectors. It can be fitted into every **flexiverter (FLX)** device for the following purposes:

- to **output the current clock** (from any source) as wordclock signal
- to **sync the FLX to an externally provided wordclock** signal

For a detailed description of possible configurations, please refer to the manual of your base FLX device.

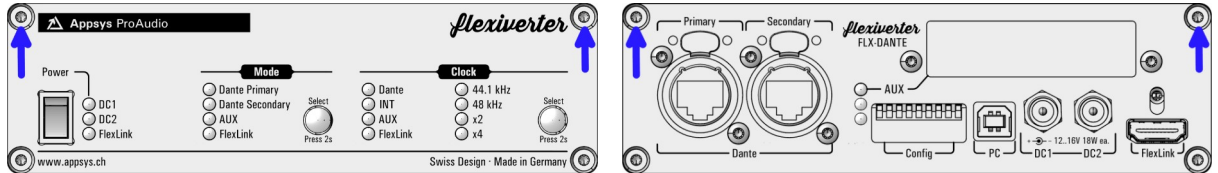
2.1. Box Contents

- 1 AUX-WORDCLOCK
- 1 Slot cover plate
- This manual

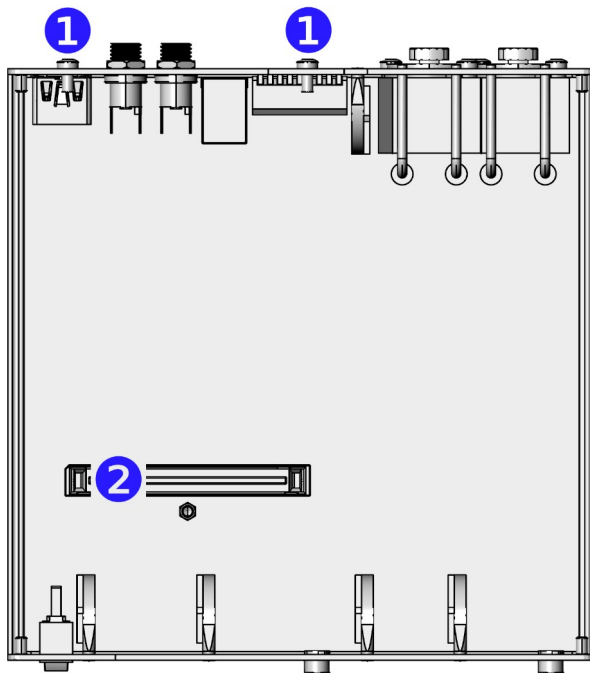
3. INSTALLATION

3.1. Opening the flexiverter

- Required: Torx T10 screwdriver
- Power off the device and detach all cables to avoid short-circuit or damage
- Detach the device from the rack-mount kit
- Remove the four top screws and the top cover by pulling it upwards:



3.2. Flexiverter Inside View



- ① Screws for AUX cover plate
- ② AUX card connector

3.3. Installing the card

- Remove the screws holding the cover plate, and the blank cover plate ①
- Insert the AUX card from inside, using the supplied cover plate. Make sure it is correctly fitted to the card connector ②
- Secure the card using two cover screws ①
- The card has been installed correctly if you are able to select "AUX" as clock source (long-press CLOCK button to enter Clock Source Selection).

4. DIP SETTINGS

The behavior of the card can be controlled by DIP switches 4..6 on the FLX device. Changing the DIP settings will come immediately into effect.

AUX-WORDCLOCK	<input type="checkbox"/> 4	True to samplerate*
	<input type="checkbox"/> 4	Always x1 (single speed)

* Default setting

5. SELF-TEST

The card can be tested for correct operation by the user. This is done using the self-test mode, in which a wordclock signal is generated and output on "OUT" and loop-backed via an external cable to "IN" where it is checked for consistency.

- Connect "Out" to "In" using a standard BNC cable. Set the termination to "ON".
- Turn off the FLX, and hold down button while switching on again
- Press again until the "CLOCK" LEDs show "INT/48kHz" in ● cyan color. The device is now in self-test mode.
- The "AUX" LED in the MODE sections shows the result of the self-test:
 - red: error/no connection
 - green (loopback data received ok)
- Press again or power off the device to exit self-test mode.

6. SPECIFICATIONS

Parameter	Value
Dimensions	118x80mm (WxH) without connectors
Weight	67g
Operating temperature	0.. + 55°C, non-condensing
Storage temperature	-40.. + 85°C, non-condensing
Cable lengths	Max. 100m
Sample rates	44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz

7. APPENDIX

7.1. Available AUX cards

At the time of writing (2021-11), the following AUX cards are available. More will come, please check www.appsys.ch for updates.

Item	Description
AUX-ADAT	16x16ch ADAT I/O (2x Toslink In + 2x out). Supports also S/PDIF
AUX-AES3	8x8ch AES3 I/O on 1x DB25, fully transformer isolated
AUX-AES67	64x64ch AES67 network card
AUX-AVB ¹	16x16ch / 32x0ch / 0x32ch MILAN-approved AVB
AUX-DAC ¹	8ch analog outputs (1xDB25)
AUX-DANTE	64x64ch DANTE network card
AUX-MADI-COAX	64x64ch MADI for coaxial cable (BNC connectors)
AUX-MADI-OPTO	64x64ch MADI optical, SC connector (Multimode 125um 1310 nm)
AUX-MADI-SFP	64x64ch MADI for SFP (Small-Factor Pluggable) modules
AUX-WORDCLOCK	BNC wordclock I/O

7.2. Available FLX devices

At the time of writing (2021-11), the following FLX devices are available. More will come, please check www.appsys.ch for updates.

Item	Description
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¹ Estimated availability: Q1/2022

FLX-AES3	16x16 channel AES3 flexiverter (with AUX slot)
FLX-AES50	96x96 channel AES50 flexiverter (with AUX slot)
FLX-AES67	64x64 channel AES67 flexiverter (with AUX slot)
FLX-DANTE	64x64 channel DANTE flexiverter (with AUX slot)
FLX-MADI	128x128 channel MADI SFP & MADI coaxial module (with AUX slot)

7.3. Warranty

We offer a full two (2) year warranty from the date of purchase. Within this period, we repair or exchange your device free of charge in case of any defect*. If you experience any problems, please contact us first. We try hard to solve your problem as soon as possible, even after the warranty period.

* Not covered by the warranty are any damages resulting out of improper use, willful damage, normal wear-out (especially of the connectors) or connection with incompatible devices.

7.4. Manufacturer contact

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7.5. Recycling



According to EU directive 2002/96/EU, electronic devices with a crossed-out dustbin may not be disposed into normal domestic waste. Please return the products back for environment-friendly recycling, we'll refund you the shipping fees.

7.6. Document Revision History

1: Initial release

7.7. About this document

All trademarks mentioned in this document are property of the respective owners. All information provided here is subject to change without prior notice.

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