

ADAT® audio signal converter

# TOX-108



## The idea

The devices in the **wagnertools** 100 series are part of an overall system. Identical housing dimensions and a uniform power unit concept characterise the top-grade products in this series. The devices are designed as stand alone units but the use of 19" device carrier means they can also be operated in a rack or switchboard at any time.

## The applications

**Broadcasting companies**

**Television companies**

**PA systems**

**Concerts**

**Theatre**

**Shows and trade-fairs**

**Stadiums**

**Discos and clubs**

**Media centres**

**Multi-purpose halls**

**Sports areas**

- **ADAT® optical to distances < 1500m**
- **Supplies OPTOXLER® optical fiber converter**
- **Bi-directional**
- **Data output 44.1 + 48 kHz to 24 bit**
- **ADAT, I and ADAT, II format**
- **Integrated error correction (PLL)**
- **Robust metal housing**

## The company

**wagnertools** products are created by people who have been dealing with the construction, service and maintenance of top grade audio equipment for decades.

[www.wagnertools.com](http://www.wagnertools.com)

**wagner  
tools**

# TOX-108

## ADAT® audio signal converter

The **TOX-108** is an ADAT® optical to OPTOXLER® digital signal converter. The inputs and outputs are rated as optical (Toslink) and XLR connections, with the device operating in bi-directional mode so that 8 input and output signals can be transmitted simultaneously. **TOX-108** intervenes actively in the ADAT® format. The input signal is received first of all and then reconstructed by an integrated PLL component, minimi-

sing the jitter which can be critical when converting multiple signals. Together with OPTOXLER® plugs it can be used for electrical/optical signal conversion to fiber 50/62.5/125µm for distances of up to 1500m. The system can be used to convert ADAT® plastic optical fibers (POF) to "real" fiber (GI). By removing the limit of approx. 7 m for ADAT® signals, it now opens up completely new possibilities.

### Technical data

#### Input:

1x XLR female 3pole for OPTOXLER® AES external supply 5V DC (pin 3)  
1x adat optical (toslink) according to U.S. patent number 5.297.181

#### Output:

1x XLR female 3pole for OPTOXLER® AES external supply 5V DC (pin 3)  
1x adat optical (toslink) according to U.S. patent number 5.297.181

#### Digital formats:

ADAT® type I (16bit) or type II (20bit), data output up to 24bit; input data length up to 24bit are supported

**User0:** ADAT® format 32-bit timecode

**User1:** MIDI data

**Operating mode:** bidirectional (complete duplex)

**Sampling frequency:** 44,1kHz and 48kHz

**Signal processing:** internal PLL creates required clock pulse (wordclock) new out of received optical data

**Jitter:** max. 500 pS

**Signal delay:** typ. 2nS; max. 27 nS

**Power supply:** 12V DC, 700mA short-circuit-proof

**Environment temperature:** 0° to 70° C

**External supply unit**

**(included):** 12V DC, 700 mA, short-circuit-proof (**wagnertools** NT-1)

**Dimensions:** (WHD) 107,5 x 39,5 x 115mm

**Weight:** 620g

### Order information

#### wagnertools TOX-108

##### Delivery including:

- TOX-108
- External switch mode power supply NT-1 100-230V AC - 12V DC

##### Optional accessories:

- 19" Frame (R19-1-4)

Your dealer:

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