Audio fiber optic converter

APP A30/A33/A50

ELEKTRONIK ART

APP A30 / A33 / A50 devices kit enable fiber optic transmission, over long distance, analog, stereophonic audio signal using multi-mode or single-mode fiber (depending on device version).

The device is applied to audio broadcasting and monitoring systems. APP A30 cooperates with others analog, fiber optic parts of Brabancja 2000 system.

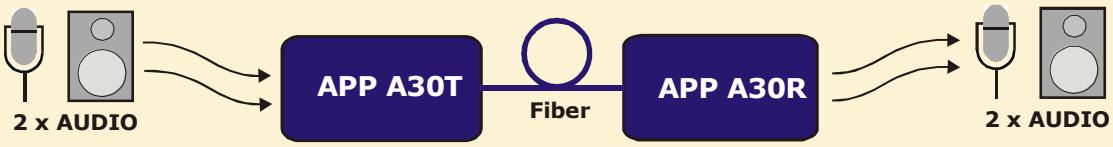
Optical fiber, as a transmission medium, enable galvanic separation between data transmission systems. The solution protect the systems against influence of stray current, charge transmitting as result a difference of potentials or strong electromagnetic disturbances.

The devices are offered as a cards mounted in 19" racks or as a stand-alone devices make them possible to applicate on DIN TS-35 rail.

- **2 channels of audio**
- **1 MM or SM fiber**
- **DIN TS-35 rail assembly**

2 A

Application diagram:



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Technical parameters:

Audio interface:

number of channels:	2 one-way
bandwidth:	20 Hz – 18 kHz (± 0,5 dB)
input impedance:	50 kΩ lub 600 Ω
electrical level:	+ 6 dB

Optical interface:

optical medium:	50/125 μm, 62,5/125 μm, 9/125μm
output wavelength:	850, 1300, 1310 nm
connector type:	ST, FC

Operating temperature range:	- 30 do + 60 °C
Power supply:	8 - 15 VDC
Dimensions:	30 x 60 x 40 mm
Housing:	clear anodised aluminium

Device versions:

Multi-mode system (MM)			
APP A30T	2 x A →	LED 850 nm, 1 x MM	up to 4 km
APP A30R	2 x A ←	PIN 850 nm, 1 x MM	up to 4 km
APP A30TM*	2 x A →	LED 850 nm, 1 x MM	up to 4 km
APP A30RM*	2 x A ←	PIN 850 nm, 1 x MM	up to 4 km
APP A33T	2 x A →	LED 1300 nm, 1 x MM	up to 10 km
APP A33R	2 x A ←	PIN 1300 nm, 1 x MM	up to 10 km
APP A33TM*	2 x A →	LED 1300 nm, 1 x MM	up to 10 km
APP A33RM*	2 x A ←	PIN 1300 nm, 1 x MM	up to 10 km
Single-mode system (SM)			
APP A50T	2 x A →	LD 1310 nm, 1 x SM	up to 40 km
APP A50R	2 x A ←	PIN 1310 nm, 1 x SM	up to 40 km
APP A50TM*	2 x A →	LD 1310 nm, 1 x SM	up to 40 km
APP A50RM*	2 x A ←	PIN 1310 nm, 1 x SM	up to 40 km

* - module to APP MidiRACK 10 rack

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