Digital, video, audio and data fiber optic converter

APP VDA200

ELEKTRONIK ART

APP VDA200 series devices are applied to digital transmission, multiplexing 10-bit video, audio, data and contact closures signals through 1 multi-mode or single-mode fiber.

The system ensures high quality stereophonic audio and uncompressed video transmission thanks to high quality ADC-DAC converters and digital transmission without loss of quality even long distance.

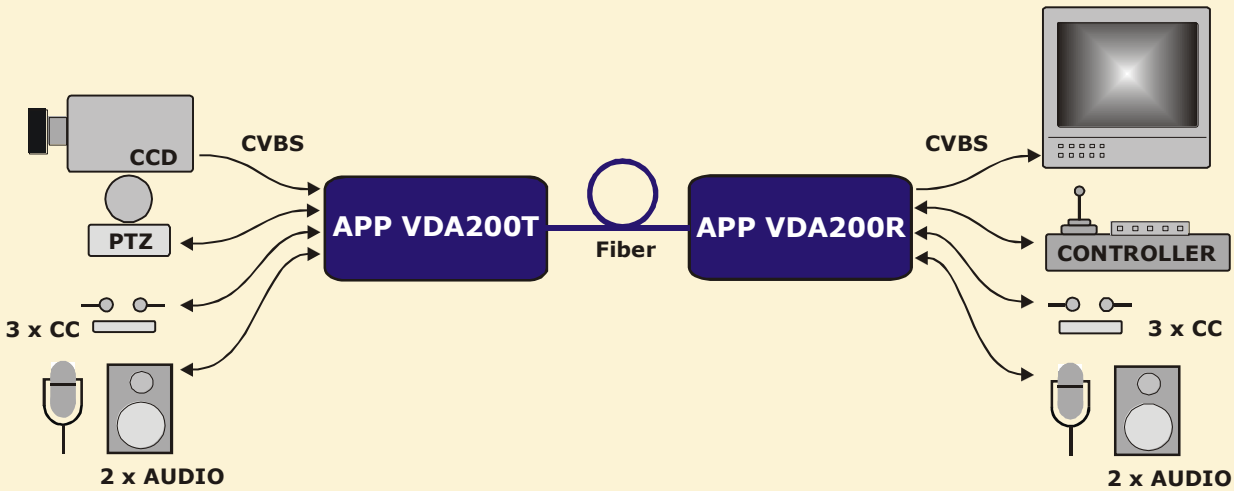
The devices are fully transparent for emitting data stream and enable electric signals transmission in accordance with V.11 recommendation, RS-422/485 particularly, up to 215 kbps as well as two-way 2 contact closure signals.

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.

- **digital transmission**
- **high quality audio**
- **uncompressed video**
- **RS-422/485 data**
- **contact closures signals (CC)**
- **1 MM or SM fiber**
- **DIN TS-35 rail assembly**

Application diagram:



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Technical parameters:

Video interface:

number of channels:	1, 10-bit
video format:	CVBS PAL
input electrical interface:	0,5 - 1,6 Vp-p
output electrical interface:	1 Vp-p
connector type:	BNC 75 Ω

Audio interface:

number of channels:	2 two-way
bandwidth:	20 Hz – 20 kHz (± 0,5 dB)
ADC converter:	16 bit, SR 48 kHz
input impedance:	50 kΩ lub 600 Ω
electrical level:	+ 6 dB
SNR:	> 93 dB
connector type:	mini DIN

Data interface (V.11):

number of channels:	1 two-way
data format:	asynchronous, serial
electrical interface:	V.11, transparent
data rate:	up to 215 kbps
connector type:	RJ-45

CC (contact closure) interface:

number of channels:	2 two-way
electrical input interface:	+ 3,3 V pull-up 10 kΩ
electrical output interface:	DC 500 mA photovoltaic relay
connector type:	RJ-45

Optical interface:

optical medium:	50/125 μm, 62,5/125 μm, 9/125μm
output wavelength:	1310/1550 nm
connector type:	SC
bit rate:	360 Mbps

Operating temperature range: - 25 to + 60 °C

Power supply: 8 - 48 VDC

Dimensions: 100 x 100 x 25 mm

Housing: clear anodised aluminium

Device versions:

Multi-mode system (MM)			
APP VDA200T	1 x V →, 2 x A ↔ , 1 x D ↔ , 2 x CC ↔	LD/PIN 1310/1550 nm, 1 x MM	up to 4 km
APP VDA200R	1 x V ←, 2 x A ↔ , 1 x D ↔ , 2 x CC ↔	LD/PIN 1550/1310 nm, 1 x MM	up to 4 km
APP VDA200TM*	1 x V →, 2 x A ↔ , 1 x D ↔ , 2 x CC ↔	LD/PIN 1310/1550 nm, 1 x MM	up to 4 km
APP VDA200RM*	1 x V ←, 2 x A ↔ , 1 x D ↔ , 2 x CC ↔	LD/PIN 1550/1310 nm, 1 x MM	up to 4 km
Single-mode system (SM)			
APP VDA200T	1 x V →, 2 x A ↔ , 1 x D ↔ , 2 x CC ↔	LD/PIN 1310/1550 nm, 1 x SM	up to 15, 25, 60 km
APP VDA200R	1 x V ←, 2 x A ↔ , 1 x D ↔ , 2 x CC ↔	LD/PIN 1550/1310 nm, 1 x SM	up to 15, 25, 60 km
APP VDA200TM*	1 x V →, 2 x A ↔ , 1 x D ↔ , 2 x CC ↔	LD/PIN 1310/1550 nm, 1 x SM	up to 15, 25, 60 km
APP VDA200RM*	1 x V ←, 2 x A ↔ , 1 x D ↔ , 2 x CC ↔	LD/PIN 1550/1310 nm, 1 x SM	up to 15, 25, 60 km

* - module to APP DR10 rack

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