

CLR-VTR-01

1 Ch Forward Video + 1 Ch Reverse RS485 to Fiber Optical Converter



Overview

The 1 Channel Video has the most advanced international technology of digital video and optical fiber transmission, performing synchronous, undistorted, uncompressed and high quality signal transmission over all kinds of optical fiber cable.

This Fiber Optical Transmitter & Receiver can be easily used in the normal operation with the help of LED indication of working status, and without any electric or optical regulation on site. It can be installed either as standalone or installed in 2U rack.

Area of usage;

- Intelligent transportation supervisory system (ITS)
- High-speed Way supervisory/Tele-Communication System
- Security protection system, TV medical treatment
- Long-distance Multi-media Schooling, Campus monitoring, CCTV camera systems
- Long-distance broadcast television transmission system
- High-building Security Protection, Military Tele-Com projects

Features

- Card type or Standalone type for your choice
- 1-digit coding and non-compressed video transmission
- Supports any high resolution video signal
- Compatible with PAL, NTSC and SECAM video formats
- Supports video intact regenerative relay, the video transmission can reach above 200km
- Supports advanced SNMP standards, realise long-distance web-controlling
- LED indication of power and other parameter status, monitoring real-time operation
- Plug-and-play, easy installation
- Modularized and industrialized design ensuring reliability and flexibility

Specifications

Fiber Features	Multimode		Singlemode		
Wavelength (nm)	850, 1310	1550DFB	1550DFB	1550DFB	1550DFB
TX Power (dBm)	-19.5 ~ -16	-6 ~ -2	-3 ~ -1	-1 ~ -0	0 ~ +2
Transmission Distance (Km)	0 ~ 0.5	0 ~ 20	0 ~ 40	0 ~ 60	0 ~ 100
Power Loss (dBm/Km)	1	0.5	0.5	0.25	0.25
Fiber Type	OM1 & OM2	OS1	OS1	OS1	OS1

Video Features	
Interface	BNC
Input/output impedance	75Ω (unbalanced)
Input/output voltage	1VP-P (peak value), Max 1.2Vpp
Bandwidth	8MHz
Sampling	10MHz High speed sampling
Digit bit width	10/12 bit
Differential gain	(10% - 90% APL) DG < 1% (Typical value)
Differential phase	(10% - 90% APL) DP < 0.8° (Typical value)
Video SNR	S/N ≥ 70dB (Maximum optical link path loss)

Data Features	
Interface Physical	Standard industrial connecting terminals
Controlled Equipments	PTZ decoder, Keyboard, Matrix, High speed dome camera
Interface Signals	RS485, RS232, RS422
RS-232 data rate	DC-115.2Kbps
RS-232 bit error rate	≤10E-12
RS-232 Network Connection	Bi-directional RS-232, supports point to point
RS-485/RS422 data rate	DC-250Kbps
RS-485/RS422 bit error rate	≤10E-12
RS-485/RS422 Max node number	128
RS-485/RS422 Transmission distance	1200m
RS-485/RS422 Network Connection	Forward, reverse and bi-directional RS-485/RS422, supports point to point and point to multipoint connections

Audio Features	
Interface	Forward / Reverse Direction Audio. Standard industrial connecting or lotus terminals
Audio input/output	electric level typical 0dBm
Audio input/output impedance	600Ω (balanced/unbalanced)
Audio input/output amplitude	2VP-P(peak value)
Audio bandwidth	20Hz ~ 20kHz
Sampling rate	58.6K
Nonlinear distortion coefficient	≤ 1 %
Audio SNR	S/N≥85db

General Parameters

Operating Temperature	-40 °C ~ +85 °C
Storage Temperature	-45 °C ~ +95 °C
Relative humidity	0 ~ 95% (Non-condensing)
Power Voltage	AC85-260v/50Hz
MTBF	≥105 hours
Power supply	10.5W Input: DC5V 3A

Ordering Information

CLR-VTR-01ACEP	1 Ch Forward Video+1 Ch Reverse RS485 Converter
CLR-VTR-02ACEP	2 Ch Forward Video+1 Ch Reverse RS485 Converter
CLR-VTR-04ACEP	4 Ch Forward Video+1 Ch Reverse RS485 Converter
CLR-VTR-08ACEP	8 Ch Forward Video+1 Ch Reverse RS485 Converter
CLR-VTR-16ACEP	16 Ch Forward Video+1 Ch Reverse RS485 Converter

ACEP : Audio / Dry Contact / Ethernet / Phone
 If you need Audio A=1 , If you dont need audio A=0