

CLR-VTR-16

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



Overview

The 16 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 by virtue of LED indication of working status, and without any electric or optical regulation on site. It can be installed independently as standalone or installed in 2U/4U 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
- 10-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 | 10MHz |
| Sampling | 15MHz 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