



CF-8101V2D

Description

Cred's CF-8101 series provides the ability to transmit 1 channel uncompressed forwarder direction video and 2-channel reverse data(RS-232,RS-485,RS-422) over one fiber cable up to 120km simultaneously, also it could transmit any other **Security Signals** like **audio, alarm, phone, Ethernet**...signals over one fiber cable simultaneously. NTSC, PAL and SECAM video formats are all seamlessly supported. Modular in design, stand-alone or rack-mounted installation is available. In addition, The Cred provides the solution for allowing PTZ camera control data to be transmitted the full distance of the fiber. Available in multimode and single-mode versions, including one transmitter and receiver.

They are suitable to the purpose of monitor and surveillance in expressways, the customs, transportation, electronic police, industrial automation, power service, banks, and water conservation projects, etc...

Features:

- 8/10 bits digitally encoded video transmission of high quality over a single fiber
- Compatible with NTSC, PAL, and SECAM Video Standards, auto compatible
- Integrated Wavelength Division Multiplexing (WDM) in a Single Fiber
- Multimode Fiber Support for Distances up to 3km
- Single-Mode Fiber Support for Distances up to 20-120 km
- LED indicators for monitoring of system operating status
- Immune to EMI, RFI, cross talk and video distortion
- Surge protection against transient surge and over voltage
- Automatic re-settable fuses, short circuit protection
- No user adjustments required
- Laser Diode for Transmission of Optical Signals

Applications

- Intelligent Transportation System
- Security and Surveillance, CCTV System
- Access Control
- Connection of Sub-network for Surveillance Center
- High Way & Toll Station Surveillance
- High Quality Video Conference
- Industrial Closed Circuit Television Surveillance

Technical Parameters

Optical	
Output/Input Wavelength	1310nm&1470nm~1610nm
Output Power	3~-15dBm
Optic fiber	50/125u multimode, 62.5/125u multimode, 9/125u single mode
Rx sensitivity	-30dBm
Bandwidth	155M/1.25G/2.5G
Distance	less than 3KM(Multimode)
	less than 120KM(Single mode)
Optical interface	FC、ST、SC(optional)
Video	
Input/output impedance	BNC 75Ω (unbalance)
Signal system	PAL/NTSC/SECAM
Nominal input & output level	1Vp-p
Nominal input & output impedance	75Ω
Bandwidth of each channel	6.5MHz
Sampling frequency	16MHz
Quantification grade	8bit/10bit
Differential gain	less than 1%
Differential phase	0.7°
S/N ratio	more than 67dB
Data characteristics	
Interface port	Standard terminal lead
Interface Signal	RS-232, RS-422, RS-485, Manchester
Code rate	0~400Kbps
BER	less than 10 ⁻⁹
Work pattern	Reverse/full duplex/half duplex
Audio(Optional)	
Audio Input/output Impedance	600ohm/10Kohm
Max input/output voltage	2.0Vp-p
Sampling frequency	48MHz
S/N ratio	more than 85dB(weighting)
Connector	Standard terminal lead
Ethernet(Optional)	
Work mode	Full duplex/half duplex
Telephone(Optional)	
Phonetic bandwidth	8KHz
Work mode	Point to point hot line, program controlling switch/extension mode

Distortion	less than 1%
Switching value(Optional)	
Signal input	alarm, Binary input, support TTL、RS-232/422/485 or passive switch button
Signal output	Arbitrary alarm, Binary output, support TTL、RS-232/422/485 or relay output
Connector	Standard terminal lead
Operation Environment	
Operating Temperature	-30 ~+70
Storage Temperature	-40~ 70
power supply voltage	110V-220V,-48V,24V,12V,5V
MTBF	more than 1000,000 hours

Diagramme:

