SIEMENS



Fibre Optic Transmission System

Video Receiver, Data Transmitter

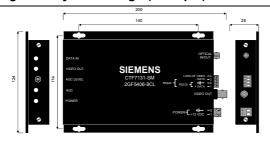
CTF7131-SM

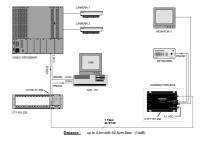
RS232/RS422, 850/1300 nm, Surface Mount Module

- AM video transmission
- NTSC, PAL, SECAM compatible
- Full colour compatibility
- Supports RS232 or RS422 data interfaces
- Full range automatic gain control (AGC)
- No in-field electrical or optical adjustments required
- Power, video presence, data out, AGC status indicating LEDs to monitor system performance
- Integrated WDM for greater product reliability
- Automatic resettable fuses on all power lines

The CTF7131-SM video and data transceiver supports the simultaneous transmission of video and one-way return data over one multi mode optical fibre. The module supports RS232 and RS422 data interfaces. Plug-and-Play design ensures ease of installation requiring no electrical or optical adjustment. The module incorporates power, video presence, data out and AGC status indicating LEDs for monitoring proper system operation.

Module design and System design (example)





Technical Data

Specifications	
Video	4.1/ /75 -1
Video input	1 V _{PP} (75 ohms)
Bandwidth	5 Hz to 10 MHz
Differential gain	< 5 %
Differential phase	< 5°
Tilt	< 1 %
Signal-to-noise ratio	> 55 dB - 10 dB ATTN
Data	
Data interface	RS232, RS422
Data format	NRZ, NRZI, Manchester, Bi-phase
Data rate	DC-100 Kbps (NRZ)
Sync	
Output voltage	4 V negative pulse
Impedance	75 ohms
Loss of video	SPST relay 100 V, 0.5 A
Relay (optional)	contact rating, normally open
Wavelength	850/1300 nm
Sensitivity	1 μw (-30 dBM)
Number of fibres	1
Fibre multi mode	62.5/125 µm
Optical power budget	
with 62.5/125 μm	14 dB
with 50/125 μm	10 dB
Connectors	
Optical	ST
Video	BNC (gold plated centre-pin)
Power	Terminal block with screw clamps
Data	Terminal block with screw clamps
Electrical and mechanical	
Power supply	12 V DC, 200 mA
Current protection	Automatic resettable solid-state current limiters
Circuit board	Meets IPC Standard
Dimensions (W x H x D)	124 x 28 x 200 mm
Weight	0.9 kg
Environmental	
MTBF	> 100,000 hours
Operating temperature	-40 to +74 °C
Storage temperature	-40 to +85 °C

Ordering data

Туре	Part no.	Designation	Weight
CTF7131-SM	2GF5406-8CL	Video Receiver,	0.9 kg
		Data Transmitter (one way) RS232/RS422,	
		850/1300 nm, Multi Mode, 1 fibre, Surface mount	