

Fibre Optic Transmission System

Video Transmitter, Data Receiver

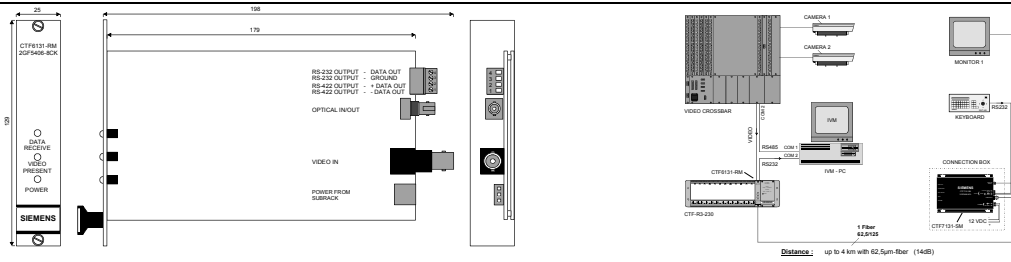
CTF6131-RM

RS232/RS422 RX, 850/1300 nm, Rack Mount Module

- AM video transmission (TX)
- 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 status indicating LEDs to monitor system performance
- Integrated WDM for greater product reliability
- Automatic resettable fuses on all power lines
- Hot-swappable rack module

The CTF6131-RM video and data transceiver supports the simultaneous transmission of video and one-way return data over one multimode optical fiber. 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 and data out status indicating LEDs for monitoring proper system operation.

Module design and System design (example)



Technical Data

Specifications

Video

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 at 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 Relay (optional)	SPST relay 100 V, 0.5 A contact rating, normally open

Wavelength 850/1300 nm

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)
Data	Terminal block with screw clamps
Power	Via board connector of rack

Electrical and mechanical

Power supply	From rack
Number of rack slots	1
Current protection	Automatic resettable solid-state current limiters
Circuit board	Meets IPC Standard
Dimensions (W x H x D)	25 x 129 x 198 mm
Weight	0.9 kg

Environmental

MTBF	> 100,000 hours
Operating temperature	-40 to +74 °C
Storage temperature	-40 to +85 °C
Relative humidity	0 to 95%, no condensation

Ordering data

Type	Part no.	Designation	Weight
CTF6131-RM	2GF5406-8CK	Video Transmitter, RS232/RS422 RX, 850/1300 nm, Multi Mode, 1 fibre, Rack mount card, 1 slot	0.9 kg