

Fibre Optic Transmission System

Video RX, TTY TX

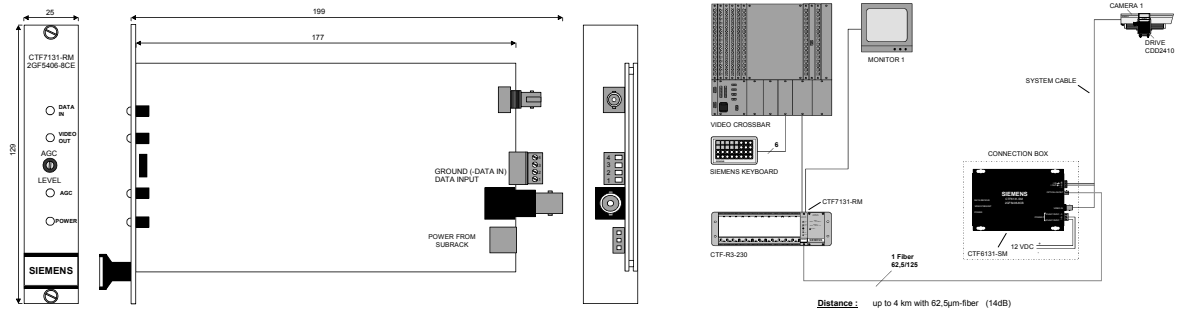
CTF7131-RM

850/1300 nm, Rack Mount Module

- **Compatible with Siemens camera control units**
- **AM video transmission (RX) and data TX (TTY)**
- **NTSC, PAL, SECAM compatible**
- **Full colour compatibility**
- **Full range automatic gain control (AGC)**
- **No in-field electrical or optical adjustments required**
- **Power, video presence, data out and AGC status indicating LEDs to monitor system performance**
- **Integrated WDM for greater product reliability**
- **Automatic resettable fuses on all power lines**

The CTF7131-RM video receiver and current loop transmitter supports the simultaneous transmission of video and one way return current loop over one multi mode optical fibre. Plug-and-Play design ensures ease of installation requiring no electrical or optical adjustments. The module incorporates power, video presence, data (TTY) and AGC status indicating LEDs to monitor proper system operation. Compatible with Siemens camera control units.

Module design and System design (example)



Technical Data

Specifications

Data

Data interface 20 mA

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 - 10 dB ATTN

Wavelength 850 nm or 850/1300 nm

Number of fibres 1

Fibre multi mode 62.5/125 µm

Sensitivity 1 µw (-30 dBm)

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 Via board connector of rack

Data Terminal block with screw clamps

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 199 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
CTF7131-RM	2GF5406-8CE	Video Receiver, Data Transmitter, TTY 850/1300 nm, Multi Mode, 1 fibre, Rack mount card, 1 slot	0.9 kg