

Fibre Optic Transmission System

Video RX, TTY/RS422 TX

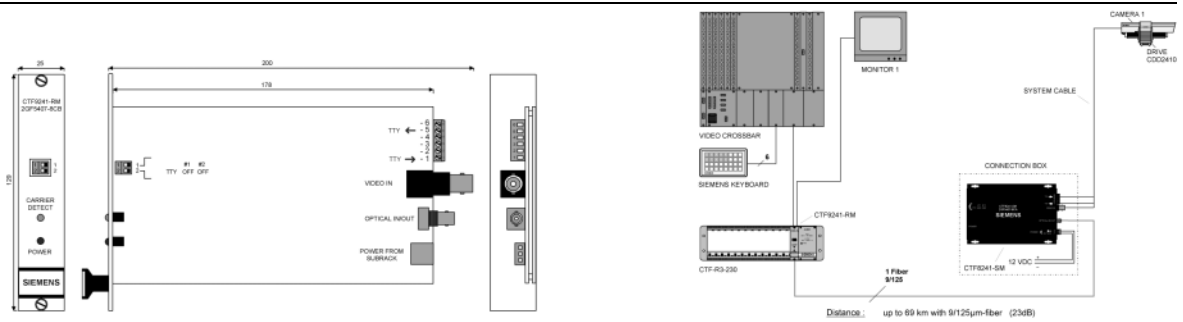
CTF9241-RM

1310/1550 nm, Rack Mount Module

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- **Compatible with Siemens camera control units**
 - **FM video transmission (RX) and data TX (TTY/RS422)**
 - **NTSC, PAL, SECAM compatible**
 - **Full colour compatibility**
 - **No in-field electrical or optical adjustments required**
 - **Power status indicating LED to monitor system performance**
 - **Integrated WDM for greater product reliability**
 - **Automatic resettable fuses on all power lines**

The CTF9241-RM video receiver and current loop/RS422 transmitter supports the simultaneous transmission of video and bi-directional data over one single mode optical fibre. Plug-and-Play design ensures ease of installation requiring no electrical or optical adjustments. The module incorporates power status and carrier-detect indicating LEDs to monitor proper system operation.

Module design and System design (example)



Technical data

Specifications

Data

Data interface 20 mA (TTY), RS422

Video

Video input 1 V_{PP} (75 ohms)

Bandwidth 5 Hz to 8 MHz

Differential gain < 5 %

Differential phase < 5°

Tilt < 1 %

Signal-to-noise ratio > 55 dB at 10 dB ATTN

Wavelength 1310/1550 nm

Number of fibres 1

Fibre multi mode 9/125 µm

Optical power budget

with 9/125 µm 23 dB

Output 200 µw (-7 dBm)

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 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) 129 x 25 x 200 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
CTF9241-SM	2GF5407-8CB	Video Receiver, Data Transmitter, TTY/RS422 1310/1550 nm, Single Mode, 1 fibre, Rack mount card, 1 slot	0.9 kg