

Fibre Optic Transmission System

Video Receiver

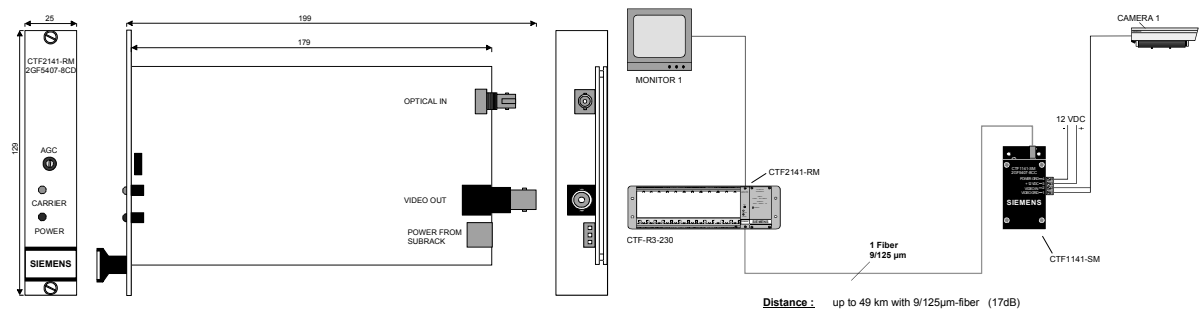
CTF2141-RM

1300 nm, Rack Mount Module

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- Pulsed frequency modulation for high quality video transmission
 - Meets requirements for RS250C short-haul transmission
 - NTSC, PAL, SECAM compatible
 - Power status indicating LED to monitor system performance
 - Wide optical dynamic range: optical attenuators are never required
 - No in-field electrical or optical adjustments required
 - Automatic resettable fuses on all power lines
 - Plug-and-Play design for ease of installation

The CTF2141-RM video receiver utilizes pulsed frequency modulation for transmission quality that meets the requirements of EIA RS250C for short-haul video transmission. This environmentally-hardened unit provides transmission of NTSC, PAL or SECAM video over one single mode optical fibre and is ideal for use in unconditioned out-of-plant or roadside installations. Plug-and-Play design ensures ease of installation requiring no electrical or optical adjustments. The module incorporates 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	< 2 %
Differential phase	< 2°
Tilt	< 1 %
Wavelength	1300 nm
Number of fibres	1
Fibre single mode	9/125 μm
Optical power budget	17 dB
Sensitivity	0.5 μW (-33 dBm)
Connectors	
Optical	ST
Video	BNC (gold plated centre-pin)
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 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
CTF2141-RM	2GF5407-8CD	Video Receiver 1300 nm, Single Mode, 1 fibre Rack mount card, 1 slot	0.9 kg