

Fibre Optic Transmission System

Mini Video Transmitter

CTF1111-SM

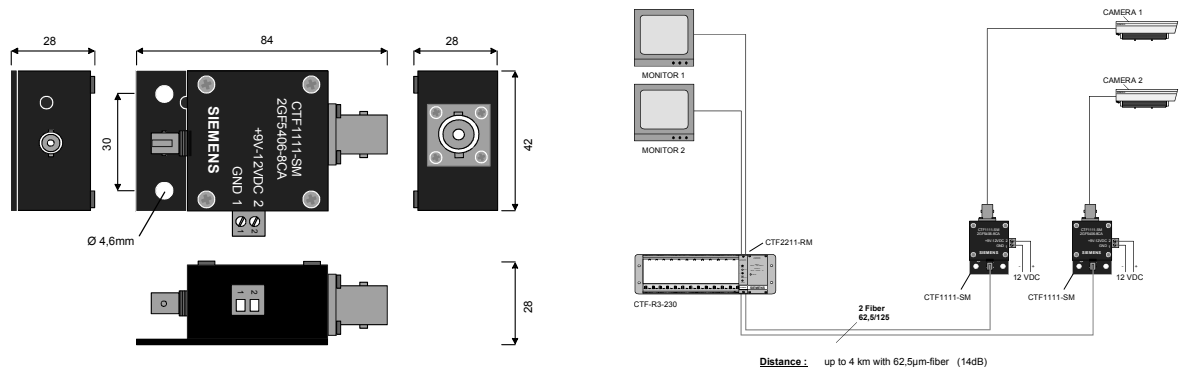
850 nm, Surface Mount Module

- **AM video transmission**
- **NTSC, PAL, SECAM compatible**
- **Full colour compatibility**
- **No in-field electrical or optical adjustments required**
- **Power status indicating LED**

The CTF1111-SM Video Mini Transmitter provides transmission of a fixed video signal using AM modulation on one multi mode Fibre optic cable. Plug-and-Play design ensures ease of installation requiring no electrical or optical adjustments. The transmitter incorporates a power status indicating LED.

The CTF1111-SM Fibre-optic module can be installed in a camera housing, a connection box or other suitable equipment. The module should be installed in the vicinity of the camera or video source.

Module design and System design (example)



Distance: up to 4 km with 62.5µm-fiber (14dB)

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 60 dB

Wavelength 850 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

Output 25 µW (-16 dBm)

Connectors

Optical ST

Video BNC (gold plated centre-pin)

Power Terminal block with screw clamps

Electrical and mechanical

Power supply 9 to 12 V DC, 150 mA

Circuit board Meets IPC Standard

Dimensions (W x H x D) 42 x 28 x 84 mm

Weight 0.3 kg

Environmental

MTBF > 100,000 hours

Operating temperature -40 to +74 °C

Storage temperature -40 to +85 °C

Ordering data

Type	Part no.	Designation	Weight
CTF1111-SM	2GF5406-8CA	Mini Video Transmitter 850 nm, Multi Mode, 1 Fibre, female BNC, Surface mount	0.3 kg