Hochfrequenzbaugruppen
Fernsteuerkomponenten
Fernsteueranlagen
FUNKTECHNIK GMBH
Sales office/Beratung & Vertrieb · Design & Production/Entwicklung & Produktion

UHF- FM Synthesized Transmitter 70TX-T

The synthesizer controlled FM transmitter **70TX-T** is an absolut **high end** solution with an excellent performance / price relation in the **10mW** class. The small sized module is completely conform to **ETS 300086**. A wide voltage range and its low power consumption combined with the small size makes the module ideal for portable and mobile applications.

Available for a wide frequency range, primarely for the european ISM band from **433,05 to 434,79 Mhz**, the modul allows an operation on **139** radio channels, each 12,5 KHz apart. The module is also available for the frequency range from **410 to 510 MHz**.

The internal microcontroller converts an external 8 bit wide information into a serial data stream for the synthesizer frequency adjustment. No complicate programming is necessary.

The integrated **standby function** allows a very short startup time if needed.

The combination with our receiver module **70RX-T** offers the user a perfect radio system with very long distance communication at simplex. Together with our remote control unit **FSM24** you can reach **1500 m and more** at free sight.

Features

- Narrow band multi channel power transceiver
- very small size
- low current consumption
- Data rate up to 9600 Bd
- No licence required
- compliance to R&TTE (99/5/EG), **ETS 300 086**

Applications

- Remote control systems
- Industrial applications
- Telemetry systems
- Alarms
- Security systems

Real size

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Specifications:

Communication	Simplex	
Frequency range	433,0625 – 434,7875 MHz	12,5 / 25 KHz step
	optional 410 – 510 MHz	Step selectable
Number of channels	139 (Standard ISM)	max. 256
Output power	10 mW	at 50 Ω
Modulation	FM Narrowband	analog and digital
Data input level	5 V_{pp} (TTL)	
Deviation	± 2,5 KHz (± 300 Hz)	by sinus with 5 V_{pp}
Data rate	DC – 5 KHz (9600 Bd)	
Temperature range	- 25 °C.... + 75 °C	
Supply Voltage	5 – 11 V	max. 4,6 – 12 V
Supply current	75 mA (± 4 mA) Transmit	26mA (± 2 mA) at Standby
Dimensions	51,8 x 31,6 x 15 mm	with lashes 61,8 x 31,6 x 15 mm
Weight	26,5 g	
Material	Stainless steel	with M3 mounting lashes
Antenna	λ/4 – whip antenna (Teflon)	optional SMA, SMB or MCX
Approvals	R&TTE (ETS 300 086)	Europe (433,0625 – 434,7875 MHz)

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