



## UHF-FM PLL Power Transmitter 70TX-D

The UHF mini transmitter **70TX-D** is one of the smallest crystal stabilized transmitter modules in the **500mW** class. A wide voltage range and its low power consumption combined with the small size makes the module ideal for portable and mobile applications.

By the interesting combination of reliable technologies it was possible to design a product, putting together the advantages of frequency stable crystal oscillators and the synthesizer concept in a very small size.

The **70TX-D** transmitter is a single channel, crystal stabilized solution, available for the frequency range from **410 to 510 MHz**, mainly in the european 70cm ISM band from **433,100 to 434,775 MHz**.

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

The combination with our receiver-modules **70RX-M1** or **70RX-S1** offers the user a perfect radio system with very long distance communication at simplex or half-duplex. Together with our remote control unit **FSM24** you can reach **4500 m and more** at free sight.

### Features

- Narrow band single channel transmitter
- very small size
- low current consumption
- Data rate up to 9600 Bd
- Compliance to R&TTE (99/5/EG)
- EN300220 and **EN300113**

### Applications

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



Real size



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### Specifications:

<b>Communication</b>	Simplex	
<b>Frequency range</b>	433,100 – 434,750 MHz optional 410 – 510 MHz	25 KHz step
<b>Number of channels</b>	Single channel (fix)	
<b>Output power</b>	350 mW at 50 $\Omega$ / 5 V	500 mW at 50 $\Omega$ / 6 V
<b>Modulation</b>	FM Narrowband	analog and digital
<b>Data input level</b>	5V <sub>pp</sub> (TTL)	
<b>Deviation</b>	$\pm 2,5$ KHz ( $\pm 300$ Hz)	by sinus with 5 V <sub>pp</sub>
<b>Data rate</b>	DC – 5 KHz (9600 Bd)	
<b>Temperature range</b>	- 25 °C ... + 75 °C	
<b>Supply voltage</b>	5 – 8 V	max. 4,6 – 12 V (only with duty cycle)
<b>Supply current</b>	Standby 20mA ( $\pm 3$ mA)	300mA ( $\pm 30$ mA) at 5 V 340 mA ( $\pm 30$ mA) at 6 V
<b>Dimensions</b>	49,7 x 25 x 12,5 mm	with lashes 59,7 x 25 x 12,5 mm
<b>Weight</b>	20 g	
<b>Material</b>	Stainless steel	with M3 mounting lashes
<b>Antenna connector</b>	SMA	optional SMB or MCX
<b>Approvals</b>	R&TTE (EN300220) (EN300113)	Europe (433,0625 – 434,7875 MHz)