

FM-Receiver Modules**200RX-xx, RX 70 / 35 -xx Series**

Type	200RX-S	RX70-M1	RX70-S	RX35-M
	Multi channel VHF RX	Single channel UHF	Multi channel UHF	Single channel UHF
Dimensions in mm	48x24x13	48x24x13	48x24x13	48x24x13
Weight	23g	23g	23g	23g
Supply voltage	8,0-12,0 V DC	5,0-12,0 V DC	5,0-12,0 V DC	5,0-12,0 V DC
Current	30mA	21mA	22mA	28mA
Principle	Dual conversion	Dual conversion	Dual conversion	Dual conversion
1. IF / 2. IF	21,4MHz / 455KHz	21,4MHz / 455KHz	21,4MHz / 455KHz	45,0MHz / 455KHz
Sensitivity 12dB SINAD / CCITT	-122dBm	-121dBm	-121dBm	-120dBm
Selectivity, adj. chan. mod. +/- 25KHz	40dB	50dB	50dB	50dB
Blocking 1 MHz	55dB	80dB	80dB	80dB
Blocking 100KHz	50dB	55dB	55dB	55dB
Spurious Responses				
RSSI / Mute	Mute	Mute or RSSI	Mute and/or RSSI	Mute or RSSI
RSSI Range	approx. 0,5V-2V -123dBm - 60dBm	approx. 0,5V-2V -123dBm - 60dBm	approx. 0,5V-2V -123dBm - 60dBm	approx. 0,5V-2V -123dBm - 60dBm
Audio Output	2,0Vpp	0,2Vpp	0,5Vpp	0,5Vpp
Audio Frequency	DC – 4KHz	30Hz – 5KHz	DC – 5KHz	DC – 5KHz
Output	analog	analog	analog	analog
AFC Y/N	N	Y	N	N
Distortion	<2,5%	<2,5%	<2,5%	<2,5%
Image rej. 1. IF	>40dB	>50dB	>50dB	>60dB
Image rej. 2. IF	>70dB	>90dB	>90dB	>90dB
Available Freq. range	140 – 180 MHz	410 – 510 MHz	410 – 510 MHz	830 – 950 MHz
Standard Freq. range	140 – 160 MHz	433,075 – 434,750 MHz	433,0625 – 434,7875 MHz	868 – 870 MHz
Nr. of channels	16 max.	1	138 (256 max.)	1
Switching Bandw.	2 MHz	none	5 MHz max.	none
Audio phase	0°	180°	0°	0°
Max. RF-input	10 dBm	0 dBm	0 dBm	0 dBm
LO leakage	< - 57 dBm	< - 57 dBm	< - 57 dBm	< - 57 dBm
Temperature range	-20°C - +60°C	-20°C - +60°C	-20°C - +60°C	-20°C - +60°C

Technical specifications are subject to change without further notice.

FM-Transmitter Modules

TX- 200 / 70 / 35 -xx Series

Type	TX200-S	TX200-P	TX70-M1	TX70-S	TX70-D	TX70-E	TX35-M
	Multi channel VHF 10mW TX	DDS Type Multi - channel VHF - Power TX	Single channel UHF 10 mW TX	Multi channel UHF 10mW TX	Single channel UHF 0,5 W TX	Multi channel UHF 0,5 W TX	Single channel UHF 10 mW TX
Dimensions in mm	48x24x13	10x90x45 incl. connectors	25x24x9	25x24x9	48x24x13	48x24x13	25x24x9
Weight	23g	950g	10g	10g	23g	23g	10g
Supply Voltage	7,0-12,0 V DC	12,0 +/- 10% stab.	5,0-12,0 V DC	5,0-12,0 V DC	5,0-7,0 V DC	5,0-7,0 V DC	5,0-12,0 V DC
Current	90 mA	7,0 A	22 mA	28 mA	320 mA	320 mA	25 mA
RF-output power	10 mW / 10 dBm	25 W / 44 dBm	10 mW / 10 dBm	10 mW / 10 dBm	500 mW / 27 dBm	500 mW / 27 dBm	10 mW / 10 dBm
Adj. channel power 12,5KHz spac. / 1 KHz mod.	-62dBc	-68dBc	-68dBc	-62dBc	-68dBc	-62dBc	-68dBc
Mod. input	5 Vpp max.	5 Vpp max.	5 Vpp max.	5 Vpp max.	5 Vpp max.	5 Vpp max.	5 Vpp max.
Modulation Frequency	DC – 5 KHz analog or digital	DC – 5 KHz analog or digital	DC – 5 KHz analog or digital	DC – 5 KHz analog or digital	DC – 5 KHz analog or digital	DC – 5 KHz analog or digital	DC – 5 KHz analog or digital
Available Freq. range	140-180 MHz	140-180 MHz	410-510 MHz	410-510 MHz	410-510 MHz	410-510 MHz	830-950 MHz
Standard Freq. range	140-160 MHz	140-160 MHz	433,075-434,750 MHz	433,0625-434,7875 MHz	433,0625-434,7875 MHz	433,0625-434,7875 MHz	868-870 MHz
Nr. of channels	16 max.	upto 16	1	138 (256max.) 12,5 KHz spacing	1	138 (256max.) 12,5 KHz spacing	1
Switching Bandw.	5 MHz	5 MHz	none	5 MHz	none	5 MHz	none
Spurious Radiation	< -40 dBm	< -37dBm	< -57dBm	< -40 dBm	< -40 dBm	< -40 dBm	< -57dBm
Temperature range	-20°C - +60°C	-20°C - +60°C	-20°C - +60°C	-20°C - +60°C	-20°C - +60°C	-20°C - +60°C	-20°C - +60°C
Conform to	ETS 300-220	ETS 300-113	ETS 300-220	ETS 300-220	ETS 300-220 ETS 300-113	ETS 300-220 ETS 300-113	ETS 300-220

Technical specifications are subject to change without further notice.

FM-Transceiver Modules TRX70-xx Series

Type	TRX70-T	TRX70-TP
General data		
Dimensions in mm	51x31x15	51x31x15
Weight	45g	45g
Supply Voltage	5,0-8,0 V DC	5,0-8,0 V DC
Temperature range	-20°C - +60°C	-20°C - +60°C
Receiver Section		
Current	70mA	70mA
Principle	Dual conversion	Dual conversion
1. IF / 2. IF	45 MHz / 455 KHz	45 MHz / 455 KHz
Sensitivity 12 dB SINAD / CCITT	-117 dBm	-117 dBm
Selectivity,adj. chan. mod. +/- 25KHz	50 dB	50 dB
Blocking 1 MHz	80 dB	80 dB
Blocking 100 KHz	50 dB	50 dB
Spurious Response	70 dB	70 dB
RSSI / Mute	RSSI and Mute	RSSI and Mute
RSSI range	approx. 0,5 V – 2 V -123 dBm - -60dBm	approx. 0,5 V – 2 V -123 dBm - -60dBm
Audio Output	1,0 Vpp	1,0 Vpp
Audio Frequency	DC – 5KHz	DC – 5KHz
Analog / digital output	analog	analog
Distortion	< 2,5 %	< 2,5 %
Image rej. 1. IF	> 70 dB	> 70 dB
Image rej. 2. IF	> 90 dB	> 90 dB
Available Freq. range	410 – 510 MHz	410 – 510 MHz
Standard Freq. range	433,0625 – 434,7875 MHz	433,0625 – 434,7875 MHz
Nr. of channels	138 standard (256 max.)	138 standard (256 max.)
Switching Bandw.	5 MHz	5 MHz
Audio phase	0°	0°
Max. RF-input	0 dBm	0 dBm
LO leakage	< -57 dBm	< -57 dBm
Transmitter section		
RF-output power	10 mW	250 mW
Current	60 mA	250 mA
Spurious Radiation	< -40 dBm	-40 dBm
Frequency range	same as RX	same as RX
Channel adjust time	< 2 ms	< 2 ms
TX/RX switching time	< 2 ms	< 2 ms
Adj. channel power 12,5KHz / 1 KHz mod.	-65 dBc	-65 dBc
Modulation Frequency	DC – 5 KHz analog or digital	DC – 5 KHz analog or digital
Mod. input	5 Vpp max.	5 Vpp max.
Conform to	ETS 300-220 ETS 300-113/086	ETS 300-220 ETS 300-113/086

Technical specifications are subject to change without further notice.