

TECHNOSYSTEM S.r.l.

By  Group

introducing "SUNSMITTER" solar FM radio TX

The quintessential tool for the Rural Radio in Africa !

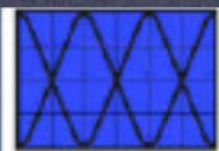


Models	Sunsmmitter-30	Sunsmmitter-100	Sunsmmitter-250
Rated output power	30 W	100 W	250 W
Frequency range	87.5 ÷ 108 MHz		
Modulation type	F3E Direct carrier frequency		
Operational Mode	Mono, Stereo, Multiplex		
Environmental working conditions	-10 °C to + 60 °C / 95% Humidity non condensing		
Frequency programmability	From software, with 10 kHz steps		
Frequency stability	±1 ppm		
Modulation capability	150 kHz Stereo, 180 kHz Mono/MPX		
Pre-emphasis mode	0 µS, 50 µS (CCIR), 75 µS (FCC)		
Spurious & harmonic suppression	<75dBc (80 dBc typical)		
POWER REQUIREMENTS			
AC Supply Voltage	90 ÷ 260 VAC Full Range		
Active Power Consumption	70 W	200 W	450 W
Overall Efficiency	>42 %	> 50 %	> 55 %
DC Supply Voltage	24 or 48 VDC		
MECHANICAL DIMENSIONS			
Phisical Dimensions	483 mm x 44 mm x 394 mm		
Weight	about 5,5 kg		
Cooling	Forced, with internal fan		
Acoustic Noise	< 58 dBA		
AUDIO INPUTS			
Left/Mono & Right	10 kohm or 600ohm (XLR F) Level:-13 to +13 dBu		
MPX	10 or 50 ohm (BNC) Level: -13 to +13 dBu @ 75 KHz FM		
SCA/RDS	10 Kohm (2x BNC) Level: -8 to +13 dBu @ 75 KHz FM		
AES/EBU	110 (XLR F) Level: 0 to -10 dBfs @ 75 KHz FM		
OUTPUTS			
RF Output	50 ohm (N type)		
RF Monitor	50 ohm (BNC) approx. -30 dBc		
Pilot output	>5 Kohm (BNC) approx.1Vpp		
OPTIONS			
/RX-S	DVB-S/S2 Receiver module with F RF input conn. RF input frequency: 950-2150 MHz Demodul.: QPSK, 8PSK Available Supply Voltages: 90÷260VAC and 24 or 48 VDC		



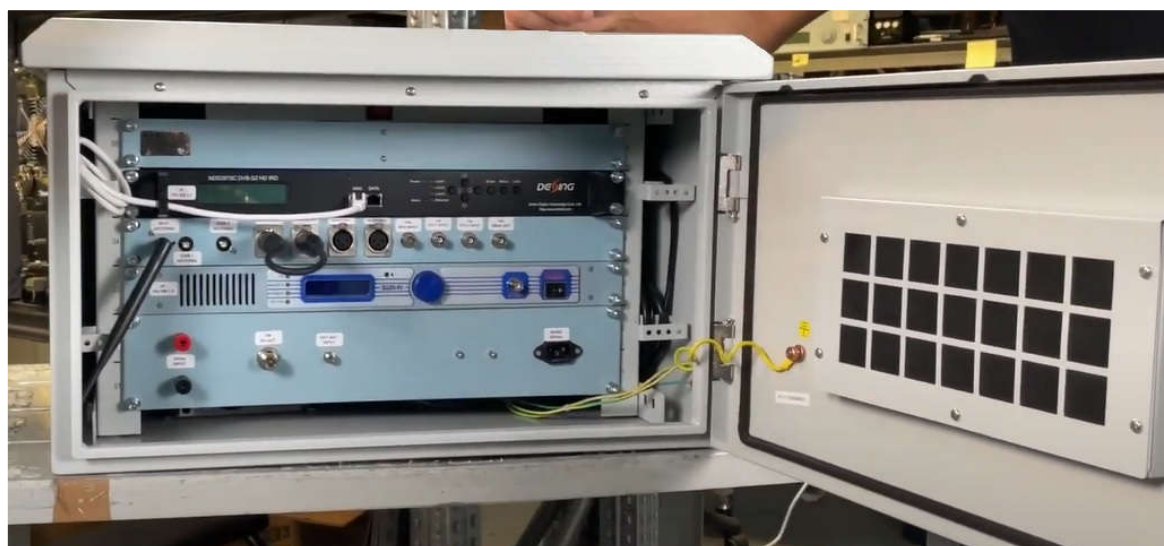
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Example of integration



Videos on Youtube:

<https://youtu.be/MRrbn8uWFRs>

<https://youtu.be/ln0zhEy-kTw>