DATASHEET

TX1000 V3 | DDS FM TRANSMITTER

TX150 V3 | TX300 V3 | TX600 V3 | TX1000 V3

A fully featured direct to channel digital FM exciter with all the bells and whistles!

This 1000W FM transmitter is perfect for LPFM stations, community stations, emergency broadcast kits, military applications or as a truly reliable back-up transmitter or exciter for national broadcasters. Whatever the application, the TX1000 V3 will take it in its stride.

The built in 4-band DSPX audio processing, eliminate the need for a separate processor saving you $$$. Monitor and control this transmitter using, just about, any method you can think of. Sleep easy at night with a whole host of maintenance friendly, stress busting features.

Why you'll never regret choosing the TX1000 V3.

- 100-1100 watts RF output power
- Direct to channel digital modulation
- GPS inputs for SFN application
- XLR analogue & digital inputs
- Dual MPX / sca in and outs
- Lab grade DSP stereo generator
- RDS generator
- DSPX multi-band processor inside
- VSWR and temp monitoring
- Slide-in & Hot swap power supplies
- Events, alarms and actions
- RS232, Telnet, SNMP
- Mobile ready web browser control

SPECIFICATION

RF	
Harmonics	better than -75 dBc
Spurious	<-90dBc
Frequency range	87.5 - 108 MHz
Frequency steps	10KHz to 100KHz selectable
Frequency selection	User interface or web remote control
Frequency control type	direct to channel DDS
Frequency stability	<+/- 100 Hz
Modulation	DDS
Synchronous AM Noise	>60dB% min (at normal deviation)
Asynchronous AM Noise	>70dB
RF Connector	7/16 50 Ohm
AUDIO & MPX I/O	
MPX input / output connector	2 X BNC IN / 2 X BNC OUT
MPX input / output impedance	10k
MPX input level	-10dB to +10dB (adjustable)
MPX input / output response	+/- 0.01 dB, 5 Hz to 100 kHz
Audio input connectors	XLR balanced
Analog input impedance	10 kOhm
AES/EBU sampling rates	32KHz-192KHz (MPX OVER AES READY)
STEREO	
Subcarrier generation	DSP
Pilot	19 kHz +/- 1 Hz (adjustable)
Pilot generation	
Output level	0dBu - 12dBu adjustable
15 kHz filtering	80dB at 19kHz (DSP based)
Overshoot filter clipping	DSP based
Spurious: >80 kHz / >160kHz	> -60dBr / > -80Br
Stereo separation	>50dB (20Hz - 15kHz)
OTHER	
RF Power	100W - 1100W
Voltage input	220-265 VAC
Environmental	1275W average @ 300W RF
Switched mode approvals	UL / TUV / CE
Size (mm)	485mm x 350mm x 90mm
Weight	8.4kg
User Interface	3 buttons, rotary encoder & 256x64 graphics display
External control	I/O Alarms D9-type Male; RS232 D9-Type Female Telnet and Web remote RJ45 Ethernet