DATASHEET

TR1000 V3 | DDS FM TRANSLATOR

TR300 V3 TR600 V3

bw broadcast ltd

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

The TR1000 V3 pulls in weak signals and re-broadcasts with amazing clarity thanks to it's DSP receiver and ultra low distortion modulator, even at the most challenging translator sites.

Because it's a 'single box' solution it's faster and easier to set-up, and will save you space and money, in purchasing & maintenance.

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 TR1000 V3.

- 10-1100 watts RF output power
- Direct to channel digital modulation
- GPS inputs for SFN application
- XLR analogue & digital inputs
- Dual MPX
- 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	N-type 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 / > -80dBr
Stereo separation	>50dB (20Hz - 15kHz)

OTHER	
RF Power	10W - 1100W
Voltage input	220-265 VAC
Environmental	1275W average @ 1000W RF
Switched mode approvals	UL / TUV / CE
Size (mm)	485mm x 450mm x 90mm
Weight	8.8kg
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