



TR300 V2 | 300W FM Translator

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The most popular 300W FM transmitter in the world, the TX300 V2 can be found in LPFM stations, community stations, emergency broadcast kits, military applications and as a truly reliable back-up transmitter or exciter for national broadcasters. Whatever the application, the TX300 V2 will take it in its stride. Now with built in 4-band DSPX audio processing, Ethernet control and FSK IDer.

- 30-310 watts RF output power
- 30+ miles Transmission range
- XLR analogue/digital inputs
- Composite input
- Stereo encoder
- Pre-emphasis audio limiter
- DSPX multi-band processor inside
- Antenna fault protection
- VSWR and temp monitoring
- Slide-in & Hot swap power supplies
- RS232 remote control
- 2 year international warranty

Size	485mm x 350mm x 90mm
Weight	6.8kg
Voltage input	100 - 265 VAC
Power connector	IEC C20 (C19 cable)
Switched mode approvals	UL / TUV / CE
Power consumption	465W average @ 300W RF
Power	30.8W - 310.8W
Power supply type	2 x Slide-in / Hotswap
Connector	N-type 50 Ohm
Approvals	CE/RTTE, FCC certified, IC*

* CE/RTTE: applicable harmonised standards, FCC ID: 2A8PH-TX300V2, IC: 11730A-TX300V2

RF

Harmonics	better than -75 dBc
Spurious	<-90dBc
Frequency range	87.5 - 108 MHz
Frequency steps	10 kHz to 50 kHz selectivity
Frequency selection	User interface with display or web remote control
Frequency control type	Dual speed phase locked loop
Frequency stability	<+/- 500 Hz (fine adjustment available)
Modulation	Direct frequency modulation
Synchronous AM Noise	0.31% (at normal deviation)
Asynchronous AM Noise	0.18% (at centre frequency of 97.7 MHz)

AUDIO & MPX I/O

MPX input / output connector	BNC / BNC
MPX input / output impedance	1.8kOhm (in) / >600 Ohm (out)
MPX input level	-10dB to +10dB (adjustable)
MPX input / output response	+/- 0.02 dB, 5 Hz to 100 kHz
Audio input connectors	XLR balanced
Analog input impedance	10 kOhm
AES/EBU sampling rates	32kHz, 44.1kHz, 48kHz, 88.2kHz and 96kHz

STEREO

Subcarrier generation	Microprocessor generated 8x over-sampled
Pilot	19 kHz +/- 1 Hz (adjustable)
Pilot generation	Microprocessor generated 16x over-sampled
Output level	+6dBu (BNC)
15 kHz filtering	80dB at 19kHz (DSP based)
Overshoot filter clipping	DSP based
Spurious: >80 kHz / >160kHz	> -60dB / > -80dB
Stereo separation	>50dB (20Hz - 15kHz)

LIMITER

Audio input levels	-10dB to +24dB for level control, DSP auto levelling
Audio input connectors	XLR balanced (shielded)
Input CMRR	> 60dB
Audio distortion	0.05% at limiting 1 KHz (bypass preset)
Frequency response	20 Hz to 20 kHz +/- 0.2dB (pre-emphasis off)
Processing range	Processing control range 40dB (pre-emphasis off)
Input impedance	10 kOhm
Pre-emphasis	50 µs, 75 µs and 0 µs (off)
Process modes	Multiple presets

OTHER

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



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