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

The TR300 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 TR300 V3.

- 10-330 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: 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: +/-.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
- Stereo separation: >-60dBr / >-80dBr
- Stereo separation: >30dBr (20Hz - 15kHz)

**OTHER**
- RF Power: 10W - 330W
- Voltage input: 100-265 VAC
- Environmental: 503W average @ 300W 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