The TR300 V2 pulls in weak signals and re-broadcasts with amazing clarity thanks to its 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 $$$ in purchasing & maintenance.

- 30-310 watt RF output power
- Advanced DSP receiver
- XLR analogue/digital inputs
- Composite MPX input
- Stereo encoder
- DSP multi-band processor inside
- VSWR and temp monitoring
- Slide-in power supply
- RS232, SNMP, Ethernet remote control
- Analogue and digital inputs
- Alarms, triggers & email alerts
- 2 year international warranty

**RF**
- Harmonics: better than -75 dBc
- Spurious: < -90 dBc
- 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: +/- 0.5 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 1kHz (DSP based)
- Overshoot filter clipping: DSP based
- Spurious: >80 kHz / >160kHz
- Audio output separation: >60dBdr / >80dBdr
- 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: 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 DP-type Male; RS232 DP-Type Female
- Telnet and Web remote RJ45 Ethernet