



TL-UDTT100~3K 100Wrms~3KWrms DVB-T Digital TV Transmitter

With 474~858MHz frequency range, and agile frequency channel output, it could easily convert among different digital TV systems; and it suitable for different terrestrial digital TV standards including DVB-T, DMB-T, and ADTB-T, also implementation of terrestrial digital TV networks, either multi (MFN) or single-frequency (SFN).

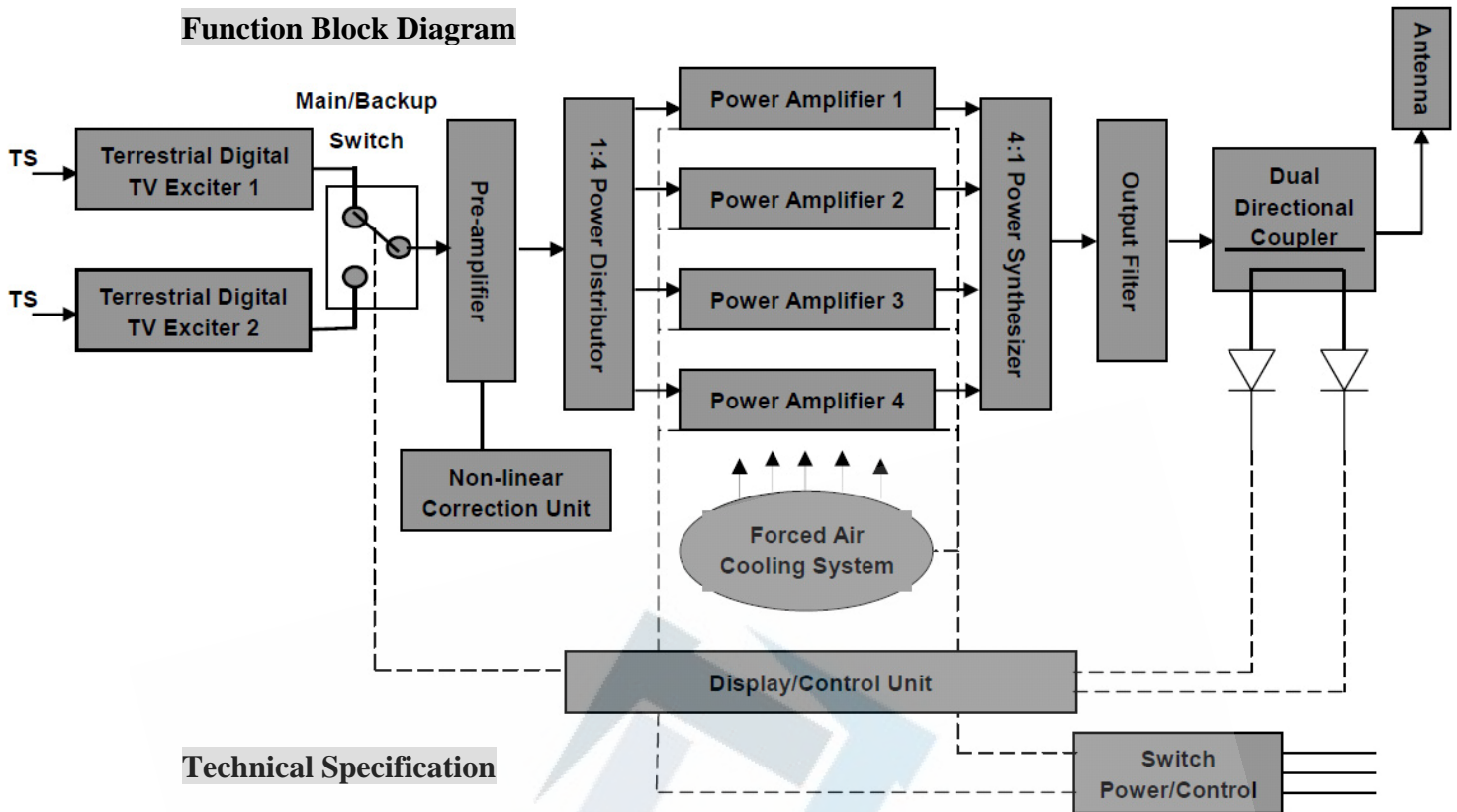
Features

- Agile frequency channel output
- RF bandwidth: 6/7/8MHz optional
- Adopting advanced digital IF pre-correction technology, this transmitter could work under super-linearity state at low transmitting signal distortion
- All solid-state circuit design, power amplifier unit has super-linearity, broadband characteristics. It is modularized designed with high gain LDMOS high-power FET, which has large redundancy, perfect self-check function and easy to install and maintain
- With over-voltage, over-current, over-heat, over-excitation, low-voltage, short-circuit and over-VSWR auto-protective functions, it could run securely
- Adopting digital/analogue compatible output band-pass filter, and high-power synthesis technology, that low insertion loss and high out-of-band suppression
- Local or remote control, friendly OSD interface by microcomputer unit, it can display and control the operating mode of exciters, power amplifier unit and transmitter
- Wide voltage stability range and high efficiency, power supply
- Forced-air-cooling design with low power consumption and low noise
- 19"rack structure with modularization assembled frame and elegant appearance





Function Block Diagram



Technical Specification

| | | |
|--------------------------------------|--|--|
| Channel Processing | Network mode | SFN and MFN (DVB-T) |
| | Bandwidth | 8MHz/7MHz/6MHz (optional) |
| | Inverse fast Fourier transform | 2K, 8K mode |
| | Protective interval | 1/4, 1/8, 1/16, 1/32 |
| | FEC | 1/2, 2/3, 3/4, 5/6, 7/8 |
| | Sub-carrier modulation mode | QPSK, 16QAM, 64QAM |
| | Hierarchy | Alfa 1.2.4 |
| Input Interface of Exciter | Connector | Dual ASI MPEG2 TS input, BNC, 75 Ω |
| | SFN standard clock input interface | F=10MHz; Level: -5dBm~+10dBm; 50 Ω |
| | SFN Standard time input | BNC, frequency: 1pps, level: 0~5V, forward trigger, 50 Ω |
| IF Input Interface of Exciter | Interface | BNC; 50 Ω |
| | IF | 30~40MHz Modulation between: 30~40MHz; step: 1Hz |
| | Frequency stability | Inner clock: 1PPm; or sync with outer GPS |
| | Spectrum polarization | Forward or inverse |
| | Output level | 8dBm~-2dBm adjustable |
| | Output level flatness | + 0.2 dB |
| | Return loss | > 26 dB |
| | Output signal shoulder and out-of-band rejection | > 50 dB@ IF±4.2 MHz |
| | hybrid wave suppress | > 60dB |
| MER | 45dB | |





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|---|---------------------------|---|
| RF Output Interface of Overall Transmitter | Connector | 7/8", 1 5/8", 3 1/8" flange; 50Ω |
| | Output frequency range | 474~858MHz (Can be specified as any channel) |
| | Spectrum polarization | Forward or inverse |
| | Output power | 100Wrms~3KWrms |
| | Output flatness | ±0.5dB |
| | Return loss | >16 dB |
| | and out-of-band rejection | >36dB@ IF ±4.2 MHz |
| | and noise suppress | <-60dB |
| | Amplification class | A+AB |
| Environmental Factors | Working temperature | -10~+45℃ |
| | Storage temperature | -30~70℃ |
| | Relative humidity | <95% (Non condensation at 25℃) |
| | Cooling | Forced air cooling with built-in fan |
| | Atmosphere pressure | 86~106Kpa |
| | Power supply | 180V~230V; AC; 47~63Hz |
| | Machine room | Few dust, no oscillation and impact) |
| | Dimension | 1.2KW: 1800(H)×600(W)×900(D)mm ³ ; depends on power classes |

Ordering Info

TL-UDTT100~3KW 100Wrms~3KWrms Terrestrial digital TV transmitter

Important Notice: In order to choose the best power output ,you had better to tell us the number of plan to transmitting TV programe and the radius of coverage area!

