



## Main Feature:

- Compliant with terrestrial TV standard in China GB20600-2006
- 2 TS ASI inputs for 188/204 byte, Packet Mode and Burst Mode
- PID Filtering and Insertion
- TDS-OFDM modulation
- Support 1 or 3780 sub carriers
- Guard Interval: 1/4, 1/7, 1/9
- FEC BCH LDPC: 0.4, 0.6, 0.8
- Time Inter-leaver Depth: 240,720
- Constellation: QPSK, 16QAM, 64QAM, 4QAM-NR, 32QAM
- Support SFN and MFN with SIP processing
- Channel bandwidth: 6, 7, 8MHz
- RF agile for VHF or UHF with step 1Hz
- RF level from -10dBm to 0dBm
- MER > 38dB, Shoulder > 50dB
- External 1PPS and 10MHz Clock inputs
- Linear and non linear pre-correction
- RS232 Control and Supervision or IP Web browser in option



**TS Input:**

- ◆ Compliant with EN 50083 ASI interface standard
- ◆ 2 1ASI input 188/204 packet, Packet and Burst mode
- ◆ PID Filtering Insertion for TV program cut and Insertion
- ◆ Bit Rate adaptation, Null Packet Filtering, PID Processing
- ◆ Connector type: BNC female, Impedance 75Ohm

**Modulation and Channel Coding:**

- ◆ TDS-COFDM modulation
- ◆ Sub carriers: 1 or 3780
- ◆ FEC BCH LDPC: 0.4, 0.6, 0.8
- ◆ Guard Interval: 1/4, 1/7, 1/9
- ◆ Time Inter-leaver Depth: 240, 720
- ◆ Constellation: QPSK, 16QAM, 64QAM, 4QAM-NR, 32QAM

**RF Output:**

- ◆ Central frequency: VHF or UHF by 1Hz
- ◆ Signal level(Main): 0dBm +/- 2dB with 0dB to 10dB attenuation adjustable by 0.1dB step
- ◆ Signal stability: +/- 0.1dB
- ◆ Modulation error ratio(MER): >38dB
- ◆ Shoulder: >50dB @ +/-5MHz from central frequency
- ◆ Spurious: 50dB relative to total power
- ◆ Return loss: >15dB
- ◆ Connector type: N female, Impedance 50 Ohm

**RF Amplifier Option:**

- ◆ Ultra linear amplifier for VHF, UHF Bands
- ◆ Gain: 15-25dB
- ◆ Gain Flatness: <1dB
- ◆ Gain Stability: <0.1dB
- ◆ Return loss: >15dB
- ◆ Connector type: N female, Impedance 50Ohm

**Linear Pre-correction:**

- ◆ Spectrum tilt adjustment: +/-2dB, step=0.2dB
- ◆ Useful Bandwidth: 7.61MHz
- ◆ Number of pre-correction points: 32
- ◆ Amplitude pre-correction: +/-3dB
- ◆ Group Delay pre-correction: +/-500ns

**Non linear Pre-correction:** Single shoulder and double shoulder

Correction	Nb point	Abscissa range	Ordinate range	Step
AM/AM	16	-12 dB to +12dB	-6dB to +6dB	0.05dB
AM/PM	16	-12 dB to +12dB	-25° to +25°	0.05dB/0.2°

**Test Signal Modes:**

- ◆ PRBS TS Sequence, PN 9,15,23
- ◆ Signal Carrier Test Tone
- ◆ SFN Fine Tune

**DTMB Network:**

- ◆ SFN: Time offset setting
- ◆ MFN: BR adaptation, Static delay
- ◆ Loss of Reference Signal 1pps, 10MHz management  
SIP option field processing: TX ID, Time offset, Frequency offset, Power, Cell ID, TX Mute

**Clock Reference:**

- ◆ **Internal 10MHz**  
Stability: 0.5ppm(typ); 3.0ppm(full temperature range)  
Aging: 0.8ppm; Output level: 0dBm +/- 3dB
- ◆ **External 10MHz**  
Input level: -5dBm to +10dBm  
Input connector type: N female, 50 Ohm
- ◆ **External 1pps reference**  
Input level: TTL level 5 KOhms; Pulse width: 1us  
Input connector type: BNC female

**Build-in GPS Receiver Option:**

- ◆ Locked Accuracy : +/-1 x 10\*\*-9
- ◆ Antenna status, GPS lock status, Satellite Number and signal strength, YY/MM/DD and HH/MM/SS

**Control and Alarm:**

- ◆ Local control: 6 buttons, LCD screen, LED
- ◆ Remote control: RS-232 or WEB browser through IP Ethernet RJ-45 in option
- ◆ DB-9 with 2 Contact Relays for alarms: TS Loss, Bit rate Overflow, 1pps or 10MHz loss, SFN loss, etc

**Physical Conditions:**

- ◆ Power supply: AC 220V+/-10%, 45W
- ◆ Operating temperature: 0-50°C
- ◆ Storage conditions:  
-10-70°C, humidity 10%-80% at 50°C
- ◆ Dimension: L=540mm, W=483mm, H=44mm (1RU)
- ◆ Weight: Net 7 kg, Gross 10 kg

