



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 ● Fully compliant with ETSI 300 799, ETS 300 401 standards

- Two ETI inputs in redundant mode with automatic and seamless Switching
- Support DAB 1,2,3,4 modulation modes
- 3G Test Mode, SFN Test Mode
- Support SFN and MFN
- DAB mode, TII and Offset delay configuration by ETI
- Channel Bandwidth: 1.536MHz
- Option IF agile from 30MHz to 40MHz with step 1Hz





ETI Input:

- ◆ Fully complaint with ETSI 300799 ETI interface standard
- ◆ Data Bit Rate: 2.048Mb/s
- ◆ Data Format: NI(G703), NA5376(G704), NA5592(G704)
- ◆ Redundancy Mode: Manuel, Automatic and Seamless
- ◆ Connector type: BNC female, Impedance 75Ohm

Modulation and channel coding:

- ◆ Fully complaint with ETS 300401 standard
- ◆ Modulation: I,II,III,VI modes
- ◆ Support TII Signalling
- ◆ Channel Bandwidth: 1.536MHz

IF Output Option

- ◆ Central frequency: 30MHz to 40MHz, Step 1Hz
- ◆ Signal level(Main):0dBm to -10dBm by 0.1dB step
- ◆ Signal stability: +/- 0.5dB
- ◆ I/Q Amplitude Error: <0.05%

I/Q Phase Error: <0.05 degree

- ◆ Modulation error ratio(MER): >40dB
- ◆ Shoulder: >50dB @ +/-970kHz from central frequency
- ◆ Spurious: 55dB relative to total power
- ◆ Return loss: >15dB
- ◆ Connector type: BNC female, Impedance 75 Ohm

Test Signal Modes:

- ◆ 3G Mode
- ◆ SFN Test Mode
- ◆ Spectrum Hole

DAB/T-DMB Network:

- ◆ SFN: Offset delay insertion, 0-1 second, step 100ns
- ◆ MFN: Static delay insertion, 0-1 second, step 100ns
- ◆ ETI Control for DAB Mode, TII, Offset delay
- ◆ TII Infomation Insertion: Main ID, Sub ID

Alarm Management:

- ◆ 2 Contact Relays to trigger external equipment
- ◆ Alarm List: ETI Sync Loss, Bit Rate Overflow, SFN Loss, Ext 10MHz Loss, 1pps Loss

Control Mode:

- ◆ Local control: 6 buttons, LCD screen, LED
- ◆ Remote control: RS232 & RS485 or WEB browser through IP Ethernet RJ-45 in option

RF Output:

- ◆ Frequency: L band or VHF bands
- ◆ Signal level(Main): 0dBm +/- 2dB
- ◆ Attenuation: 10dB adjustable by 0.1dB step
- ◆ Signal stability: +/- 0.1dB
- ◆ Modulation error ratio(MER): >38dB
- ◆ Shoulder: >48dB @ +/-1MHz from central frequency
- ◆ Spurious: 50dB relative to total power
- ◆ Return loss: >10dB
- ◆ Connector type: N female, Impedance 50 Ohm
- ◆ RF Mute Mode: Direct and Progressive

RF Amplifier Option:

- ◆ Ultra linear amplifier for VHF, UHF Bands
- ◆ Gain 15- 25dB, Gain Flatness <1dB
- ◆ Gain Stability <0.1dB
- ◆ Return loss: >15dB

Extra -90dB Attenuator Option:

- ◆ Attenuation bandwidth: 48-900MHz
- ◆ Attenuation Step 1dB, Flatness <2dB

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

Physical conditions:

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

Non linear pre correction: Single shoulder and double shoulder

Correction	Nb point	Abscissa range	Ordinate range	Step
AM/AM	2~16	-12 dB to +12dB	-6dB to +6dB	0.1dB
AM/PM	2~16	-12 dB to +12dB	-25° to +25°	0.1dB/0.2°

Linear pre correction:

Bandwidth	Nb Point	Amplitude Correction	Phase Correction
1.536MHz	32	±3dB; Step 0.1dB	±500nS; Step 10nS

