Main Feature:

- Fully Compliant with ISDB-T and ISDB-TB Standard
- High MER, RF Stability, Shoulder Level and Low Phase Noise
- Support 1k , 2k, 4k FFT Modes
- Guard Interval: 1/4, 1/8, 1/16, 1/32
- FEC: 1/2, 2/3, 3/4, 5/6, 7/8
- Constellation: DQPSK, QPSK, 16QAM, 64QAM
- MFN and SFN Network Operation (IIP Packets)
- RF Agile from 50MHz to 860MHz with step 1Hz
- Option IF Agile from 34MHz to 70MHz with step 1Hz
- Powerful Linear and Non-linear Precorrection
- Support Crest Factor Adjustment
- External 1pps and 10MHz Clock Inputs
- Optional Pre- Amplifier
- Optional Onboard GPS
- RS232 Control and Supervision or IP Web Browser in Option

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ISDB-T/T_B Modulator *Bossa-GAF*

TS Input:

- Complaint with ARIB STB-B31 and TR-B14 standard
- 2 x ASI inputs
- Support 188/204 packet, Packet mode and Burst mode
- Input Transport Stream Packet de-multiplexer
- IIP packet management for SFN operating
- TS Redundancy:Manuel/Auto,Seamless in SFN
- Connector type: BNC female, Impedance 75Ohm

Modulation and channel coding:

- FFT: 1k ,2k, 4k
- FEC: 1/2, 2/3, 3/4, 5/6, 7/8
- Guard Interval: 1/4, 1/8, 1/16 or 1/32
- Constellation: DQPSK, QPSK, 16QAM, 64QAM
- Time interleave: 0 to 16
- Channel Bandwidth: 6MHz

IF Output Option:

- Central frequency: 34MHz to 70MHz, Step 1Hz
- Signal level(Main): 0dBm +/- 2dB with 0dB to -10dB attenuation adjustable by 0.1dB step
- Signal stability: +/- 0.5dB，+/-1kHz
- Modulation error ratio(MER): >42dB
- Shoulder: >55dB
- Spurious: 50dB relative to total power
- MFN and SFN network operation (IIP packets)
- Connector type: N female, Impedance 50 Ohm

Linear Pre-correction:

- Number of Pre correction points: 32
- Amplitude pre correction: +/-3dB
- Phase pre correction: +/-1us

Adjustable Crest Factor :

- The range of Crest Factor: 8-20dB
- The crest factor optimization: 1-255

ISDB-T/T_B Network:

- SFN: Time offset setting
- MFN: BR adaptation, Static delay setting

RF Output:

- Central frequency: 50MHz to 860MHz
- Signal level(Main): 0dBm +/- 2dB with 0dB to -10dB attenuation adjustable by 0.1dB step
- Signal stability: +/- 0.5dB，+/-10kHz
- Modulation error ratio(MER): >40dB
- Shoulder: >50dB
- Spurious: 50dB relative to total power
- Connector type: N female, Impedance 50 Ohm

RF Pre-Amplifier Option:

- Ultra linear amplifier for VHF, UHF Bands
- Gain:15dB, Gain Flatness<1dB, Gain Stability<0.1dB

Test Signal Modes:

- PRBS TS Sequence
- Sinus tone insertion
- Null Symbol Insertion
- Central Carrier Cancelled

Clock Reference:

Internal 10MHz

- Stability: <+/-5x10-9(typ), Output level: 0dBm +/- 3dB

External 10MHz

- Input level: -7dBm to +2dBm
- Input connector type: BNC female, 50 Ohm

External 1pps reference

- Input level: TTL level 25 KOhms; Pulse width: 1us
- Input connector type: BNC female

Optional onboard GPS

Control and Alarm:

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

Physical:

- Power supply: AC 110V+/-15% or 220V+/-10%, 80W
- Operating temperature: 0 to 50 degrees
- Dimension: L=540mm, W=483mm, H=44mm (1RU)
- Weight: Net 7 kg, Gross 10 kg

Non linear Pre-correction:

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°

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