

UC-350 ISDB-T

ISDB - T/TB Modulator

Upcom Technologies' UC-350 ISDB-T is a broadcast level digital modulator compatible with ISDB-T and ISDB-TB standards adopted in Brazil and other Countries in South America for terrestrial digital television. It is designed to meet digital terrestrial TV broadcasting applications , from ASI Transport Stream inputs to UHF or VHF modulated signal outputs.



- **FULLY COMPLIANT WITH ISDB-T AND ISDB-TB STANDARD**
- **HIGH MER, RF STABILITY 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 40MHz TO 860MHz WITH STEP 1Hz**
- **POWERFUL LINEAR AND NON-LINEAR PRECORRECTION**
- **SUPPORT CREST FACTOR ADJUSTMENT**
- **EXTERNAL 1PPS AND 10MHz CLOCK INPUTS**
- **GPS REFERENCE INPUT**
- **RS232 CONTROL AND SUPERVISION OR IP WEB BROWSER IN OPTION**

TS Input:

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

Modulation and channel coding:

Mode 1(2K), 2(4K), 3(8K)
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

RF Output:

Central frequency: 40MHz to 860MHz (1Hz step)
Signal level(Main): -16dBm to +3dBm 0.5dB
Signal stability: +/- 0.5dB? +/-10kHz
Modulation error ratio(MER): >40dB
Spurious: 50dB relative to total power
Connector type: N female, Impedance 50 Ohm

Power Supply:

AC 110V+/-15% or 220V+/-10%, 22W

Operating temperature

0 to 50 degrees

Operating temperature

L=540mm,
W=483mm, H=44mm (1RU)

Weight

Net 5 kg

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