

MOD6600

ATSC-T Modulator



MOD6600 ATSC-T modulator is DIBSYS's newly designed product supporting ASI and SMPTE-310 input. After modulating the inputting signals through ATSC 8-VSB, it can output RF signals with the range between 40 ~ 960MHz. In other words, MOD6600 ATSC-T modulator supports the coding and modulating mode under ATSC-T A/53 standard.

It also supports adaptive non-linear and linear digital pre-distortion (DPD). Additionally, the system of this device can be on line controlled and upgraded through network, which can be widely used in ATSC-T digital broadcasting network setup and the testing for ATSC-T set top box design.

Features

- Full complying with ATSC A/53 standard
- Support ATSC 8VSB modulation
- Support 2ASI, 2 SMPTE 310M, 1 external 10Mhz reference clock and 1 RF input
- RF output frequency range: 40MHz~960MHz, 1Hz stepping
- Support RS coding, interleaving and Trellis coding
- Transmission bandwidth: 6MHz
- Supports adaptive linear digital pre-distortion (DPD)
- Supports adaptive non-linear digital pre-distortion (DPD)
- Adopts constant-temperature crystal oscillator, the frequency stability can be up to 0.1 PPM
- Excellent RF output performance: EVM, MER, SNR, shoulder level and etc.
- LCD/Keyboard and net management, support SNMP/NMS

TECHNICAL SPECIFICATIONS

Input

2xASI input, hot backup
2xSMPTE 310M input, hot backup
1 channel 10MHz reference clock input
1 RF input for adaptive digital pre-distortion (DPD)

RF output

Port	N Type, 50Ω impedance
RF range	40 ~ 960Mhz, 1hz stepping
Output Level	-26dbm ~ +3dbm, 0.1db stepping
MER	≥ 42db

Modulation

Standard	ATSC A/53
Constellation	8VSB
FEC	RS (208 188) + Trellis

Non-linear DPD

over 10db ACPR improvement (normally)

linear DPD

over 10db non-flatness adjustment (normally)

Control

LCD/keyboard, NMS/SNMP management
Chinese & English operation display
Software upgraded through network

ENVIRONMENT

Power Supply	AC 110V±10%, 50/60Hz; AC 220V±10% 50/60Hz
Consumption	25W
Temperature	0 ~ 45°C (operation), -20 ~ 80°C (storage)
Dimensions	482mm × 455mm × 44.5mm
Weight	6.0kg