

## HPS752 DVB-T SFN Modulator



### Outline

The HPS752 DVB-T Modulator is a high performance modulator developed according to DVB-T (EN300744) standard. It adopts advanced framing structure, channel encoding and modulation technology. It supports both MFN (Multi-frequency network) and SFN (single frequency network). It equipped with four ASI hot backup input, one GPS 10MHz input port and one 1PPS input port. In order to improve the output performance of the transmitter, this DVB-T modulator also simultaneously supports adaptive linear and nonlinear digital pre-distortion. Moreover, this device facilitates the local and remote control with SNMP software.

### Features

- **Compliant to DVB-T (EN300744) standard**
- **4 ASI input supports hot backup**
- **Support 1 RF input for adaptive digital pre-distortion(DPD)**
- **Support 1external GPS 10MHz clock and 1PPS input for SFN**
- **Support SFN and MFN**
- **Transmission mode(FFT): 2k, 4k, 8k**
- **MFN Hierarchical modulation: None, Alpha1, Alpha 2 and Alpha 4**
- **Transfer bandwidth2M, 5M, 6M, 7M and 8M**
- **Excellent RF performance, MER≥42db**
- **RF output frequency range 30~960MHz, 1hz stepping**
- **Supports adaptive linear digital pre-distortion (DPD)**
- **Supports adaptive non-linear digital pre-distortion (DPD)**
- **Constant temperature crystal oscillator, frequency stability is high up to 0.1ppm**
- **LCD/keyboard, SNMP software management**

## Specifications

Input	4xASI input, hot backup	
	GPS 10MHz reference clock input for SFN	
	GPS 1PPS input for SFN	
	1 RF input for DPD	
Modulation	standard	DVB-T(EN300 744)
	FFT	2K 4K 8K
	bandwidth	2M, 5M, 6M, 7M, 8M
	constellation	QPSK, 16QAM, 64QAM
	Guard interval	1/4, 1/8, 1/16, 1/32
	FEC	1/2, 2/3, 3/4, 5/6, 7/8
	Hierarchical modulation	None, Alpha1, Alpha 2, Alpha 4
RF output	interface	N type, 50Ω impedance
	RF range	30~960MHz 1Hz stepping
	Output level	-26dbm~+3dbm 0.1db stepping
	MER	≥ 42db
Non-linear DPD	over 10db ACPR improvement (normally)	
Linear DPD	over 10db non-flatness adjustment(normally)	
System	LCD/ keyboard operation, SNMP management	
	Software upgrading through network ,	
General	Demission(W×L×H)	440mm×414mm×44.5mm
	Weight	4.9kg
	Temperature	0~45 (operation); -20~80 (storage)
	Power Supply	AC 110V±10% 50/60Hz; AC 220V±10% 50/60Hz

### Principle chart

