



HPS8502

DVB-T2 Modulator



Outline

HPS8502 DVB-T/T2 modulator is our new product developed complying with the DVB-T/T2 standard. With its advanced modulating technology, this modulator can effectively make use of the ground spectrum resources and make it possible to provide reliable signals for fixed, mobile and portable devices. Compared with DVB-T, the channel capacity is increased by 30% under the similar carrier to noise ratio (CNR) threshold.

Moreover, this device can be upgraded and controlled through network system, which allows it to be widely used in setting up digital broadcasting network and provide good signals for scientific laboratory and DVB-T/T2 STB.

Features

- Fully complying with EN302 755 and EN300 744 standard

- 2ASI input ports
- 2 IP input over UDP protocol
- 10MHz input/loop out, 1PPS input/loop out
- DVB-T/T2 RF out in one device
- Supports single PLP
- Support MISO and SISO
- Support MFN net mode
- Supports non-linear digital pre-distortion (DPD)
- Constant temperature crystal oscillator, as high as 0.1ppm stability
- Support PID bypass and pass-through (option)
- Keyboard operation and LCD display
- Web Network management system

Specifications

Input	TS input over 2 ASI and 2 IP port (UDP)		
	10MHz reference clock input and loop out, BNC interface		
	1PPS input and loop out, BNC interface		
Multipl exing(o ption)	Maximum PID Remapping	128 input per channel	
	Function	PID remapping (automatically or manually)	
		Accurate PCR adjusting	
		Generate PSI/SI table automatically	
Modulation	DVB-T2	Standard	EN302 755
		Mode	Mode A: single-PLP;
		PLP Constellation	QPSK, 16QAM, 64QAM, 256QAM (Normal or Rotated)
		L1 Post Constellations	BPSK, QPSK, 16QAM, 64QAM
		FEC Length	Short(16K), Normal (64K)
		FEC Rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
		Pilot Pattern	PP1 - PP8
		Guard Interval	1/128, 1/32, 1/16, 19/256, 1/8, 19/128, 1/4
		FFT Mode	1k, 2k, 4k 8k, 16k, 32k (normal or extended)
		Bandwidth	5MHz, 6MHz, 7MHz, 8MHz
		Net Mode	MFN
		DVB-T	Standard

		FFT	2K, 8K
		Bandwidth	5MHz, 6MHz, 7MHz, 8MHz
		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
		Net Mode	MFN
RF Out	Connector	N Type, 50ΩImpedance	
	RF range	150~999Mhz, 1hz stepping	
	Output level ATT	-15~+5 dBm, 0.1db stepping	
	MER	> 43db	
	Shoulder Level	>56dB	
System	LCD display, keyboard and web Network management		
	Supporting software upgrading through network		
General	Demission (W*L*H)	482mm×410mm×44mm	
	Temperature	0~45℃(operation),-20~80℃(storage)	
	Power supply	AC 220V±10%,50/60Hz	

Principle Chart

