

FUTV3506 DVB-T2 Modulator

Specification



Outline

FUTV3506 DVB-T2 modulator is our new product developed complying with the DVB-T2 standard. With its advanced encoding and 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 50% under the similar carrier to noise ratio (CNR) threshold. FUTV3506 DVB-T2 modulator also supports Mode A (single-PLP) and Mode B (multiple -PLP), equipped with MI (T2-MI) interface, and can receive transmission data and synchronous information from DVB-T2 Gateway through its ASI and IP ports.

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-T2 STB.

Features

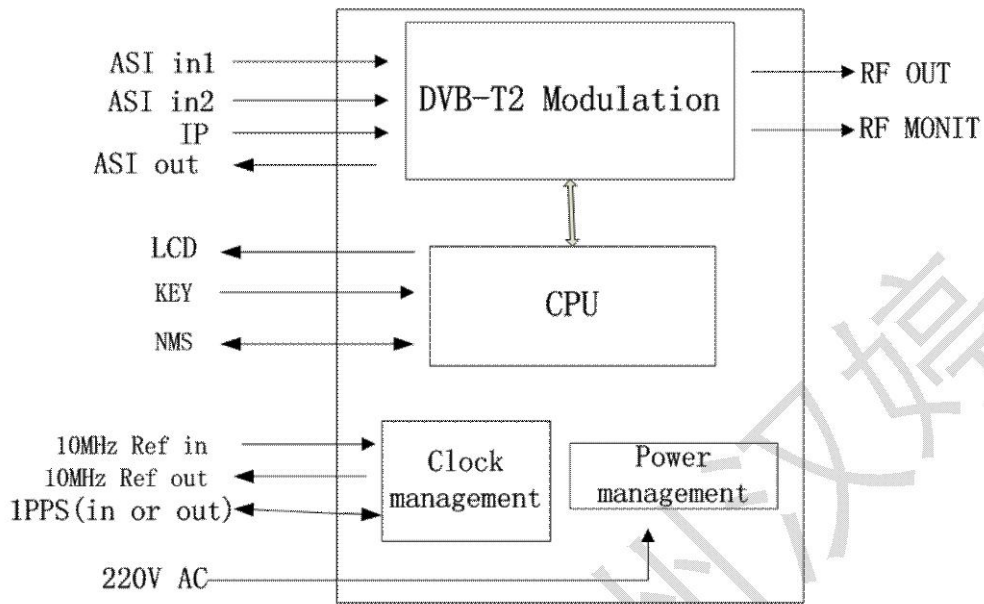
- | Fully complying with EN302 755 standard
- | 2 ASI inputs, 10MHz input, 1PPS input/output, and 1 Gigabit Ethernet IP input
- | Supports up to 8 PLP input
- | Support MISO and SISO
- | Support QPSK/16QAM/64QAM/256QAM (normal or rotated)
- | Support TS format: T2-MI or MPEG2 TS (Mode A)
- | High performance output: MER>43dB, shoulder level>56dB
- | Output signal bandwidth: 5M, 6M, 7M, 8MHz
- | RF frequency range: 30MHz ~ 900MHz
- | RF output level: -17~+0dbm, 0.1db stepping
- | Support two types PAPR: TR-PAPR
- | Supports manual non-linear and linear digital pre-distortion(DPD)
- | Constant temperature crystal oscillator, as high as 0.1ppm stability
- | Support online upgrade
- | Keyboard operation and LCD display
- | Network management system

Specifications

Input	T2MI input over ASI and IP	
	MPEG-2 TS input over ASI	
	10MHz reference clock input, BNC interface	
	1PPS input or output, BNC interface	
Modulation	Standard	EN302 755
	Mode	Mode A (single-PLP);

		Mode B (multiple-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 to 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, 8k-ext, 16k-ext, 32k-ext
	Bandwidth	5MHz, 6MHz, 7MHz, 8MHz
	Net Mode	MFN, SFN
RF Out	Connector	N Type, 50 Impedance
	RF range	30~900Mhz, 1hz stepping
	Output level ATT	-17~+0dbm, 0.1db stepping
	MER	> 43db
	Shoulder Level	>56dB
	PAPR mode	TR-PAPR
System	LCD display, keyboard and Network management	
	Supporting software upgrading through network	
General	Demission (W*L*H)	482mm×410mm×44mm
	Weight	4.8kg
	Temperature	0~45 (operation),-20~80 (storage)
	Power supply	AC 220V±10%,50/60Hz
	Power Consumption	34W

Principle chart



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