Multi-Input Modulator

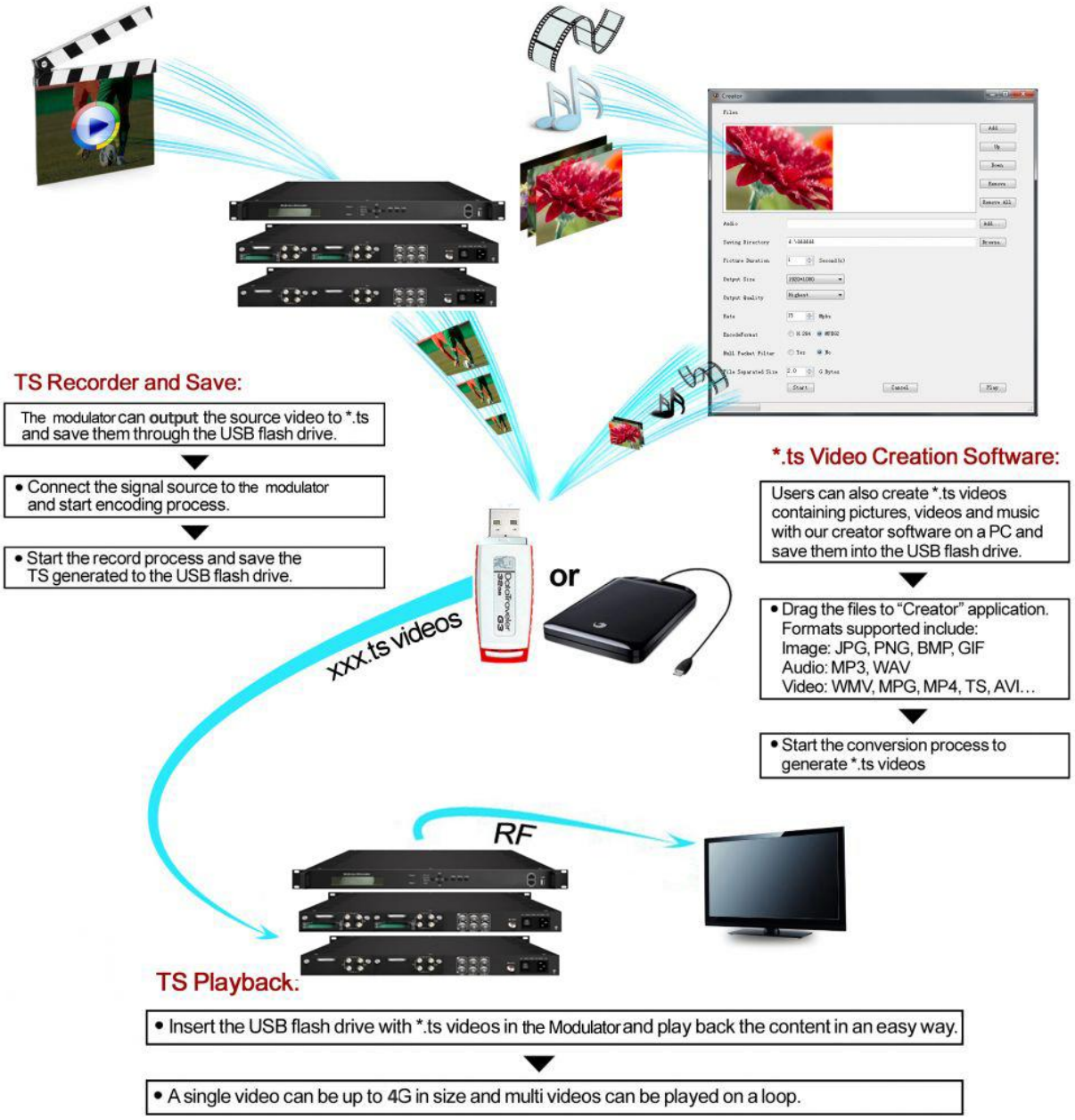
Outline

The multi-input modulator is all-in-one device which integrates demodulation, trans-mux and modulation in one case to convert signals into RF output. It is a 1-U case which supports 4 tuner inputs to receive signal from satellite, cable or terrestrial. To meet customers' various requirements, It is also equipped with 2 ASI input, and output with 2 groups separate ASI ports and 2 MPTS UDP IP port. The output modulated signals are to be received by TVs, STB and etc.

The USB port is designed to record encoded video (TS) and save it in ts files in the USB Keys or Hard Disks, and then the ts files can be playback through the USB port.

The four CAMs/CIs (Optional) accompanied and BISS modules can descramble the programs input from 4 Tuner inputs. Its pluggable structure design greatly facilitates the change of modules (demodulator) as needed.

USB Recoder & Player



USB Flash Drive Specifications Required: High Speed 2.0; File System FAT32

Key Features

- **Support 4 DVB-C/T/T2/S/S2 Tuner and 2 ASI input ports**
- **Support accurate PCR adjusting**
- **Support PSI/SI editing and inserting**
- **PID Remapping**
- **Excellent RF output performance index, MER≥40db**

- **2*DVB-T RF out or 4*DVB-C RF out optional;**
- **2 separate ASI&IP (2*MPTS over UDP) mirror 2 RF output**
- **4 CAM decrypt multiple programs from 4 Tuner input(Optional)**
- **Support BISS descrambling**
- **Record encoded TS and playback TS files (*.ts) through USB port**
- **Support LCD display and keyboard**
- **Support Web management, Updates via web and USB**

Specifications

Input	4 DVB-C/T/T2/S/S2 Tuner (Optional) and 2 ASI input				
Tuner Section	DVB-C	Standard	J.83A(DVB-C), J.83B, J.83C		
		Input Frequency	30MHz-1000Mhz		
		Constellation	16/32/64/128/256 QAM		
	DVB-T/T2	Input Frequency	30MHz-999.999Mhz		
		Bandwidth	6/7/8M bandwidth		
	DVB-S	Input Frequency	950-2150MHz		
		Symbol rate	2-45Msps		
		Signal Strength	-65~-25dBm		
		FEC Demodulation	1/2, 2/3, 3/4, 5/6, 7/8 QPSK		
	DVB-S2	Input Frequency	950-2150MHz		
		Symbol rate	QPSK 1~45Mbauds 8PSK 2~30Mbauds		
		Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10		
		Demodulation Mode	QPSK, 8PSK		
Multiplexing	Maximum PID Remapping	128per input channel			
	Function	PID remapping (automatically or manually)			
		Accurate PCR adjusting			
		Generate PSI/SI table automatically			
Modulation	DVB-C	Standard	J.83A(DVB-C), J.83B, J.83C		
		MER	≥40dB		
		RF frequency	30~999MHz, 1KHz step		
		RF output level	-20~0dbm(87~107 db μV),0.1db step		
		Symbol rate	5.0Msps-9.0Msps, 1ksps stepping		
		RF Out	4*DVB-C carriers output		
			J.83A	J.83B	J.83C
		Constellation	16/32/64/128 /256QAM	64/256 QAM	64/256 QAM
		Bandwidth	8M	6M	6M

	DVB-T	Bandwidth	6M, 7M, 8M
		Constellation	QPSK, 16QAM, 64QAM
		Code rate	1/2, 2/3, 3/4, 5/6, 7/8
		Guard Interval	1/32, 1/16, 1/8, 1/4
		Transmission Mode:	2K, 8K
		MER	≥40dB
		RF frequency	30~999MHz, 1KHz step
		RF Out	2*DVB-T carriers output
		RF output level	-20~0dbm(87~107 db μV),0.1db step
System	Local interface	LCD + control buttons	
	Remote management	Web NMS	
	Stream Out	2 ASI out(BNC type)	
		IP (2*MPTS over UDP) out (RJ45, 1000M)	
	Language	English and Chinese	
	Upgrading	Web and USB	
General	Dimension	482mm×300mm×44.5mm(W*D*H)	
	Weight	3.7kg	
	Temperature	0~45℃(Operation) ; -20~80℃(Storage)	
	Power	AC 100V±1050/60Hz; AC 220V±10%, 50/60HZ	
	Consumption	25W	

Working Principle