



- FW 86/44
- FW 462/44
- FW 822/44
- FW 46 CI/44

### FW HD COLLECTOR

#### Outline

FW HD COLLECTOR is a high performance and cost-effective mux-scrambling QAM modulator. It has multiple input ports optional. After multiplexing, scrambling and QAM modulating process, then it gives 4 RF output. To meet customers' various requirements, this device is also equipped with IP port to output 4 MPTS over UDP. Its pluggable structure design greatly facilitates the change of modules (demodulator) as needed.

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. FW HD COLLECTOR is also characterized with high integrated level, high performance and low cost. This is very adaptable to newly generation CATV broadcasting system.

## Key Features

**Multiple Input ports optional:**

**8 DVB-C/S/S2 FTA Tuner + 6 ASI input ports (FW 86/44)**

**4 DVB-C/S/S2 FTA Tuner + 6 ASI + 2 IP input port (FW 462/44)**

**8 DVB-C/S/S2 FTA Tuner + 2 ASI + 2 IP input port (FW822/44)**

**4 DVB-C/S/S2 Tuner with CAM+6 ASI input ports (FW 46 CI/44)**

**Support 4 channels multiplexing+4 channels scrambling+4 channels QAM modulating**

**Fully support DVB-C and ITU-T J.83A/B/C**

**Fully support DVB general scrambling system description ETR289, simulcrypt standard**

**ETSI 101 197 and ETSI 103 197**

**Support accurate PCR adjusting**

**Support PSI/SI editing and inserting**

**Excellent RF output performance index, MER≥40db**

**Support 4\*MPTS output over UDP**

**4 CAM decrypt multiple programs from 4 Tuner input (Optional)**

**Support BISS descrambling**

**Support LCD display and keyboard**

**Support Web management, Updates via web and USB**

## Specifications

<b>Input</b>	8 DVB-C/S/S2 FTA Tuner + 6 ASI input		-----FW 86/44	
	4 DVB-C/S/S2 FTA Tuner + 6 ASI + <b>2 IP input</b>		-----FW 462/44	
	2 IP(SPTS/MPTS) input over UDP, RJ45, 1000M, Unicast/Multicast			
	8 DVB-C/S/S2 FTA Tuner + 2 ASI + <b>2 IP input</b>		-----FW 822/44	
	2 IP(SPTS/MPTS) input over UDP, RJ45, 1000M, Unicast/Multicast			
4 DVB-C/S/S2 Tuner with CAM + 6 ASI		-----FW 46CI/44		
<b>Tuner Section</b>	DVB-C	Standard	J.83A(DVB-C), J.83B, J.83C	
		Input Frequency	30MHz-1000Mhz	
		Constellation	16/32/64/128/256 QAM	
	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	
<b>Multiplexing</b>	Maximum PID Remapping	128per input channel		
	Function	PID remapping (automatically or manually)		
		Accurate PCR adjusting		
Generate PSI/SI table automatically				
<b>Scrambling</b>	Maximum simulcrypt CA	4		
	Standard	ETSI 101 197, ETSI 103 197		
	Connection	Local/remote connection		
<b>Modulation</b>	QAM Channel	4		
	Standard	EN300 429/ITU-T J.83A/B/C		
	MER	≥40db		
	RF frequency	30~999MHz, 1KHz step		
	RF output level	-20~0dbm(87~107 dbμ V),0.1db step		
	Symbol Rate	5.0Msps~9.0Msps, 1ksps stepping		
	Constellation	16/32/64/128/256QAM		
		J.83A	J.83B	J.83C
	Constellation	16/32/64/128/256QAM	64/256 QAM	64/256 QAM
	Bandwidth	8M	6M	6M
<b>System</b>	Local interface	LCD + control buttons		
	Remote management	Web NMS		
	Stream Out	4*MPTS over UDP out (RJ45, 1000M, Unicast/Multicast)		
	Language	English and Chinese		
	Software Upgrading	Web and USB		
<b>General</b>	Dimension (W*D*H)	482mm×300mm×44.5mm		
	Weight	3.7kg		
	Temperature	0~45℃ (Operation) ; -20~80℃ (Storage)		
	Power	AC 100V±10%/60Hz; AC 220V±10%, 50/60HZ		
	Consumption	25W		

## Working Principle

