

COL5441CE 4CAM to DVB-C/T Modulator



Outline

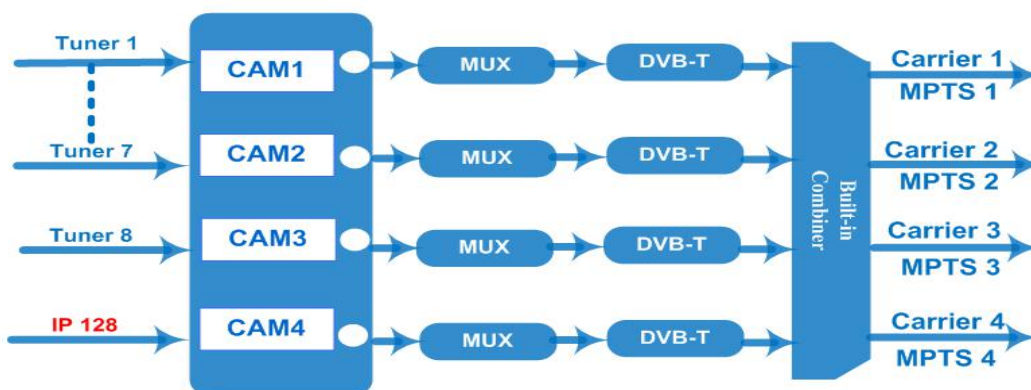
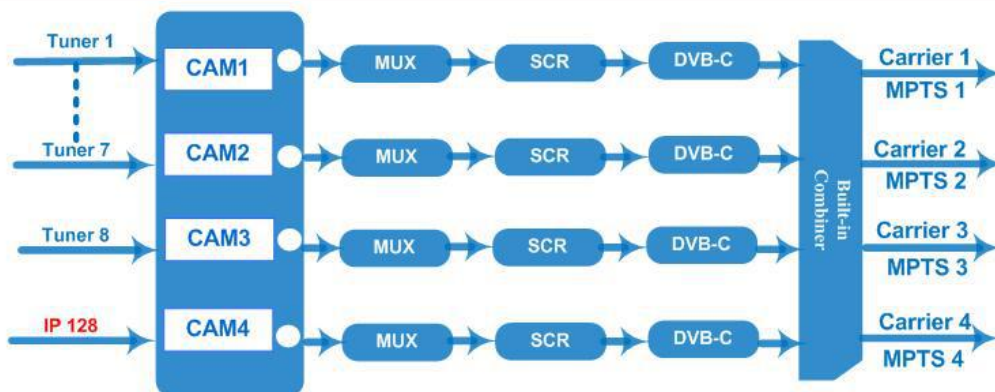
COL5441CE is a high performance and cost-effective DVB-C/T modulator. It has 8 DVB-S2 tuner inputs, after multiplexing, scrambling and modulating process, then it gives 4 RF output. To meet customers' various requirements, this device is also equipped with 128 IP input and 4 MPTS output over UDP and RTP. Its pluggable structure design greatly facilitates the change of modules as needed. Moreover, the four CAMs/CIs accompanied can descramble the programs input from 8 Tuner inputs. COL5441CE can be upgraded and controlled through network system, which allows it to be widely used in setting up digital broadcasting network and very adaptable to newly generation CATV broadcasting system.

Features

- ✓ 8 Tuner(DVB-S2) input
- ✓ Demodulation Module(4*RF/Loop out + 4*CAM + 4*Smartcard)
- ✓ One CAM can decrypt multiple programs from Tuners and IP
- ✓ maximum 128 IP input(MPTS/SPTS) over UDP and RTP protocol

- ✓ 4 groups multiplexing + 4 groups scrambling (DVB-C)+ 4 groups DVB-C modulating
- ✓ 4 IP (MPTS) output over UDP and RTP protocol
- ✓ Integrated demodulating and multiplexing functions
- ✓ Support accurate PCR adjusting
- ✓ Support PID Remapping
- ✓ Support PSI/SI rebuilding and editing
- ✓ Web-based NMS management

Principle Chart





Specifications

Input	8 Tuner (DVB-S2) input 128 IP(SPTS/MPTS) input over UDP and RTP, RJ45, 1000M/100M Unicast/Multicast			
Tuner Section	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	
		Constellation	QPSK, 8PSK	
Descrambling	CAM/CI Quantity	4		
Multiplexing	Maximum PID Remapping	256 per input channel		
	Function	PID Remapping		
		Accurate PCR adjusting		
Generate PSI/SI table automatically				
Modulation	DVB-C	Standard		
		MER	≥43dB	
		RF frequency	30~960MHz, 1KHz step	
		RF output level	-25~ -1dbm (77~97 dbμV), 0.1db step	
		Symbol rate	5.000~7.000Msps adjustable	
		RF Out	4*DVB-C adjacent carriers combined output	
		MER	≥42 dB	
			J.83A	J.83B
		Constellation	16/32/64/128/ 256 QAM	64/ 256 QAM
		Bandwidth	8M	6M
	DVB-T	Standard	EN300744	
		FFT mode	2K,	
		Bandwidth	6M, 7M, 8M	
Constellation		QPSK, 16QAM, 64QAM		



GOLABLE

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		Guard Interval	1/4, 1/8, 1/16, 1/32
		FEC	1/2, 2/3, 3/4, 5/6, 7/8
		MER	≥42 dB
		RF frequency	50~960MHz, 1KHz step
		RF out	4*RF COFDM DVB-T out (4 carriers combined output)
		RF output level	-28~ -3 dBm (77~97 dBμV), 0.1db step
System	Remote management	Web NMS	
	Stream Out	4*MPTS over UDP and RTP out (RJ45, 1000M/100M Unicast/Multicast)	
	Language	English and Chinese	
	Software Upgrading	Web and USB	
General	Dimension (W*D*H)	482mm×300mm×44.5mm	
	Weight	3.7kg	
	Temperature	0~45°C (Operation) ; -20~80°C (Storage)	
	Power	AC 100V±10%/60Hz; AC 220V±10%, 50/60HZ	
	Consumption	25W	