

DVB-S2 uplink Modulator with 32APSK COL5502N

Outline

COL5502N is a high-performance modulator developed according to DVB-S2 (EN302307) standard which is the standard of second generation of the European broadband satellite telecommunication. It is to convert the input ASI and IP signals alternatively into digital DVB-S/S2 RF output.

BISS scrambling mode is inserted to this DVB-S2 modulator, which helps to safely distribute your programs. It is easy to reach local and remote control with NMS software and LCD in the front panel. With its high cost-effective design, COL5502N DVB-S2 modulator is wildly used for broadcasting, interactive services, news gathering and other broadband satellite applications.

Features

Fully complying with DVB-S2 (EN302307) and DVB-S (EN300421) standard 4 ASI inputs supporting hot backup (3 for backup)
Support IP (100M) signal input
QPSK, 8PSK, 16APSK, 32APSK Constellations
Constant temperature crystal oscillator, as high as 0.1ppm stability
Support coupling 10Mhz clock output through RF output port
Support 24V power output through RF output port
Support BISS scrambling (UP to 80 Mbps)
Support local and remote control with SNMP or Web-server NMS
Support SFN TS (with MIP or IIP) transmission
Output frequency range: 950~2150MHz, 10KHz stepping

Specifications

ASI Input	Supporting both188/204 Byte Packet TS Input 4 ASI Inputs, Supporting Hot Backup Connector: BNC, Impedance 75Ω	
IP Input	1*IP Input (Rj45, 100M TS Over UDP)	
SFN output	MIP or IIP	
10MHz Input	1*10Mhz Input (BNC Interface)	

	RF Range: L-Band and optional 50~960Mhz			
RF Output	Output Level Attenuation: -10.0 dBm~-41.5 dBm, 0.5dB			
	Stepping			
	MER≥36dB			
	Connector: N type, impedance 50Ω			
	Standard	DVB-S	DVB-S2	
	Outer coding	RS Coding	BCH Coding	
	Inner	Convolution	LDPC Coding	
	coding	Convolution	LDFC Coding	
	Constellation	QPSK	QPSK,8PSK, 16APSK,32APSK	
			QPSK: 1/4, 1/3, 2/5, 1/2, 3/5,	
			2/3, 3/4, 4/5, 5/6, 8/9, 9/10	
Charact				
	FEC/		8PSK: 3/5, 2/3, 3/4, 5/6, 8/9,	
Coding	Convolution	1/2, 2/3,	9/10	
and	Rate	3/4, 5/6, 7/8		
	Nate		16APSK: 2/3, 3/4, 4/5, 5/6, 8/9,	
Modulation			9/10	
			22 A DCW , 214 A15 516 910 0140	
			32APSK: 3/4, 4/5, 5/6, 8/9, 9/10	
	Roll-off	0.2, 0.25,	0.2, 0.25, 0.35	
	Factor	0.35		
			0.5~40Msps (32APSK);	
	Symbol Rate	0.5~45Msps		
	Symbol Mate	5.5 15115ps	0.5~45 Msps	
			(16APSK/8PSK/QPSK)	

	BISS Scramble	Mode 0, mode 1, mode E		
System	SNMP/Web-server NMS			
	Language: English			
	Ethernet software upgrade			
	24V power output through RF output port			
Miscellaneous	Dimension	482mm×410mm×44mm		
	Weight	4.3 KG		
	Temperature	0~45°C(operation), -20~80°C (storage)		
	Power	100-240VAC±10%,50Hz-60Hz		
	Consumption	25W		

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