

EK3402 DVB-S2 Modulator

Function:

EK3402 DVB-S2 Modulator Full Comply with EN302 307 (DVB-S2) and EN300 421(DVB-S)

Outline:

EK3402 DVB-S2 modulator which is a high performance modulator is developed according to the Europe satellite communications system digital video broadcasting second-generation standard DVB-S2 (EN302307), the modulator standard adopts more advanced channel coding techniques and higher order modulation combination, in the same conditions it increases more transmission capacity than DVB-S, and can provide a more robust receive ability under the same spectrum efficiency. The device's RF output is in the L-band, can directly form a complete set with satellite communication system's digital TV transmitter. And downward compatible DVB-S's (EN300421) all kinds working modes support local and remote configuration modulation parameters.



Feature:

- ❖ Fully compliant to EN302 307(DVB-S2 Broadcast mode) and EN300 421(DVB-S)
- ❖ Supports symbol rate of 1~30Msps(DVB-S2), 1~45Msps(DVB-S)
- ❖ Supports FEC rate of 1/2,3/5,2/3,3/4,4/5,5/6,8/9,9/10(DVB-S2), 1/2,2/3,3/4,5/6,7/8(DVB-S)
- ❖ 2 ASI Input, supports hot-backup online; DS3 input optional
- ❖ Excellent MER performance over 38db
- ❖ RF output range of 950~2150Mhz, 1Khz step
- ❖ LCD display, keyboard and network management

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Specification:

MPEG-TS Input	Support the transport stream packet mode and burst mode		
	Support 188/204Byte transport stream packets		
	2 Way ASI input, support hot backup input mode		
	Input Connector Specifications: BNC Block, impedance 75Ω		
RF Output	950-2150MHz continuously adjustable		
	Level attenuation continuously adjustable (0 ~ 32dB), adjustable stepping 0.5dB		
	Maximum output level: 0dBm		
	MER≥36dB		
	Output connector specification: F Block, impedance 50Ω		
Modulation and channel coding	Outside the DVB-S DVB-S2 Error correcting code	DVB-S RS code	DVB-S2 BCH code
	Inside the error-correcting code	Convolutional code	LDPC code
	Coding rate	1/2,2/3,3/4,5/6,7/8	1/2,3/5,2/3,3/4,4/5,5/6,8/9,9/10
	Modulation constellation	QPSK	QPSK, 8PSK
	Roll-off factor	0.2, 0.25, 0.35	0.2, 0.25, 0.35
	Symbol Rate	1-45MBauds	1-30MBauds
Working condition	Size	44mm×482mm×410mm	
	Environment	0~45°C(operating); -20~80°C (storage)	
	Power	220VAC±10%, 50Hz, 25W	



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