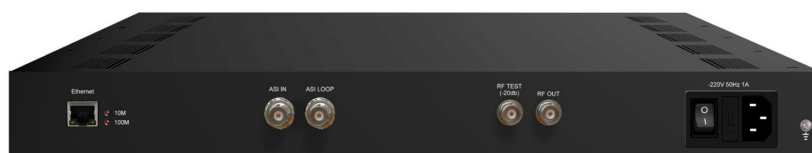


# QPSK6300

Broadcast Professional DVB-S Modulator



QPSK6300 a professional satellite modulator is cost effective designed for broadcast dvb-s contribution, DSNG and distribution applications over satellite in full compliance with the DVB standards. Depending on the applications and the activated features, can be used in conjunction with set-top boxes, professional IRDs or satellite demodulators .

It up-convert frequency signal into RF signal after the processing of RS encoding, interleaving, I/Q modulator, wave filter, finally transmit the signal to any desired CATV, off-air, MUDS output channel built-in L band upconverter. This modulator adapts the advanced FPGA digital signal technology, which greatly promote and optimize the RF output performance. A complete web GUI makes it easy to use.

## Features

- According for DVB-S ETS 300421 standards
- L band upconverter: 950-2150MHz
- Adapt the FPGA technology
- High modulation efficiency with QPSK mode
- 188/204 Bytes inputs self-adaptive
- Variable symbol rate from 1 to 45 Mbaud/s
- High quality of MER and Phase Noise
- Front panel and web GUI for easy
- Configuration
- Alarm of input signals
- 1x ASI stream input and 1x ASI lothrough
- High reliability design, stable in running
- Adopt huge buffer memory design, supports ASI burst and consecutive input mode, realize to revise the output rate average, boost the output rate speed.
- Easy-to-Use System Management

## Application

- Satellite DVB-S Headend
- MMDS/MUDS microwave links
- DSNG for uplink and downlink

## TECHNICAL SPECIFICATIONS

### ASI Interfaces

	1 ASI Input, 1 ASI loopback
	Accordance to EN50083-9
Connector	BNC, 75ohm
Packet Format	188/204 bytes
Payload Bit Rate	≤ 60 Mbps

### RF Interface

	1x RF output
Connector	N-type, 50ohm
Output Frequency Range	950-2150MHz, step 50KHz
Phase Noise	≤ -95dBc/Hz@10KHz
RF Level	90 ~ 110 dBuV, step 0.5dB
Level range	0-20dB
Symbol Rate	1-45 Mbaud
Reflect loss	≥ 15dB

### Channel Encoding

Constellation	QPSK
MER	≥ 40dB
BER	≤ 0.5 x 10 <sup>-9</sup>
SNR	≥ 45dB

FEC	1/2, 2/3, 3/4, 5/6, 7/8
FEC Encoding	According to DVB-S standard FEC and RS encoding

### Processing

	PID filtering and modify
	PCR de-jittering and re-correcting
	PSI/SI generation
	Adjustable bitrate accordance to configuration reference

### Control

	10/100 BaseT Ethernet, RJ45, SNMP
6 keys	UP, DOWN, LEFT, RIGHT, ENTER and ESC
	LED indicate light

### Environment

Power Supply	AC 90-250V 50/60Hz
Power consumption	25W
Operating temperature	-10-50°C
Storage temperature	-10-75°C
Dimensions	400mm (L) X 483mm (W) X 44mm (H)
Weight	5kg