

SMP330 Edge QAM

SMP330 is Wellav's new generation modulator. It can support up to 24 RF QAM channels, organized as three independent blocks of 8 channels. Based on customer requirements, SMP330 can be configured to support 12 DVB-T channels as well. With ASI and IP input/output options, SMP330 can support MPTS and SPTS input with multiplexing, private data insertion and scrambling capability. SMP330 provides a cost-effective yet scalable solution for network operators to re-distribute its content via HFC network or to offer VOD services.



Features

- ▶ Output 24 RF-QAM channels or 12 DVB-T channels for both SD and HD programs
- ▶ Support programs input from both ASI (four different sources) and GBE IP (up to 256 SPTS)
- ▶ Support stream processing including PID remapping and EPG data insertion
- ▶ Option to add DVB-simulcrypt scrambling capability

Buy Now!



Order Information

SQM	QAM/OFDM Modulator
SSQM	QAM/OFDM Modulator w/scrambling



Specifications

QAM RF Outputs

Physical Outputs:	three connectors for 8XRF
Output Frequency Range:	48 - 862 MHz
Output Frequency Step Size:	50 KHz
RF Channel:	24 (6/7/8 MHz)
QAM Modulation Mode:	16/32/64/128/256 QAM
QAM Type:	ITU-T J.83 Annex A/ C, Annex B (64/256QAM)
Symbol Rate:	1.0~6.9 MBauds
Output Level:	
Effective, per channel:	90~115 dBuV
Combined, 24 channel:	90~106dBuV
MER:	>40dB (Equalized)
BER:	<5*10 ⁻⁹ (64QAM,6.875Mbps)

DVB-T Output (optional)

Physical Outputs:	three connectors for 4XRF
Output Frequency Range:	50 - 858 MHz
Output Frequency Step Size:	50 KHz
Transmission Mode:	2K, 8K
Guard Interval:	1/4, 1/8, 1/16 and 1/32
Constellation:	QPSK, 16QAM, 64 QAM
FEC:	1/2, 2/3, 3/4, 5/6, 7/8
Output Level:	
Effective, single channel:	90~115 dBuV
Combined, 4 channel:	90~112dBuV

GBE IP Input

Interface:	1 x 1000 Mbps per port
IP Encapsulation:	MPEG TS over UDP/RTP
MPEG TS:	MPTS and SPTS
I/O Processing:	Up to 12 Sockets(MPTS), 256Sockets(SPTS) max at 72 Mbps per socket
Addressing:	Unicast and Multicast
Management:	IGMPv1, IGMPv2, IGMPv3
Forward Error Correction:	ProMPEG

DVB ASI Inputs

Interface:	4 BNC connectors (2 ASI inputs and 2ASI outputs), 75 Ω
MPEG Format:	188/204Bytes per TS
I/O Processing:	1 MPTS/SPTS per port, up to 120 Mbps per port

Re-multiplexing

PID:	Re-mapping and Filtering
MPTS Output Synchronization:	
Routing:	Any Input to Any Output
Redundancy:	Input Service Redundancy & IP Port Redundancy

DVB Scrambling (future feature)

TS Streams:	up to 24 TS streams (maximum 72 Mbps per TS)
Support DVB simulcrypt (maximum 4 CAS simultaneously)	
CAS support:	Irdeto, Conax, Viaccess, Nagravision, Verimatrix, Novel-Super TV, CTI Dvrcrypt and other DVB-simulcrypt CAS
Scrambling level:	Program or PID

Management

Interface:	100Base-TX, RJ45
NMS:	Wellav Digital Service Manager
Web-based Management (future feature)	
Support SNMP	

Physical & Environment

Input Voltage:	90 - 260 VAC
Power Consumption:	Approx 100 W
Rack Space:	1 RU
Dimension (WxHxD):	480mm x 44mm x 440mm
Operating Temperature:	0C to50C
Storage Temperature:	-40C to65C
Relative Operating Humidity:	< 95%



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