SMP316 Multi-channel non-adjacent EdgeQAM Datasheet (Preliminary)

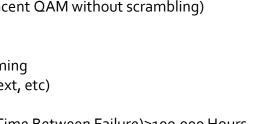
Production Introduction

SMP316 is a distribution EdgeQAM which helps pay-TV operators receive up to 320 SPTS/MPTS streams over IP, re-multiplex and scramble them with DVBsimulcrypt CAS and output in 8/16/32 non-adjacent QAM frequencies.

SMP316 supports non-adjacent modulation, helping customers easily insert their content without reconfiguring the existing QAM frequencies. SMP316 can further upgrade to support 32 QAM frequencies and 256 SPTS/MPTS as well as scrambling to meet future demands.

Features

- Up to 320 STPS/MPTS over IP input and 268 output(optional)
- Supports FEC and IGMP V2/3
- Supports DVB and ATSC standards(ITU-T J.83 A/C/B, DOCSIS, DRFI)
- Up to 16 non-adjacent QAM output (expandable to 32 non-adjacent QAM without scrambling)
- Excellent modulation feature with MER≥43dB
- Supports DVB-simulcrypt CAS de-scrambling
- Re-multiplexing(EPG/EIT re-multiplexing is optional) and grooming
- Supports audio and auxiliary data pass-through(AC3, CC, Teletext, etc)
- Easy management via Web-UI or SNMP
- Low power consumption and high reliability with MTBF(Mean Time Between Failure) >100,000 Hours



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En. Rev.A

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Chassis	Processing capacity Data processing Slot number Interface	800TS (1000 programs) 4 Gbps 3 slots 2xASI Inputs (BNC, Female, 75 Ω ports) 2xASI outputs (BNC, Female, 75 Ω ports) 1xGbE TS/IP, TS/IP (RJ45) 1xmanagement (RJ45)
Multiplexing	Routing Table supported PID processing EIT processing External data	Any input to any output SI/PSI/PSIP Remapping, filtering Pass-though EPG and SI insertion
IP	Interface	On-chassis: 1 x RJ45 (100/1000) On-module: 2 x RJ45 (100/1000, 1+1 backup capable) 2 x SFP (1000, 1+1 backup capable)
	Protocol	TS over UDP/RTP, unicast/multicast
	MPEG TS	MPTS and SPTS
	Channels	On-chassis: 64 streams input and 12 streams output
	Constitu	On-module: 256 streams input
	Capability Bit mate a sum out	Max. 72Mbps per IP stream (module)
	Bit-rate per port	Maximum 780Mbps
	De-jittering Management	
	Management FEC	IGMP V2, IGMP V3 ProMPEG
Scrambling	Interface	1xRJ45
Scrambiling	Scrambling capability	Max.8ooMbps of all output programs
	EMM bit-rate	Up to 3Mbps
	Simulcrypt scrambling	Up to 4 CA system simultaneously
	Encryption	DVB EMM and ECM insertion
QAM Modulation	RF output	1 x F-type female, for RF output
	QAM density	Max. 16 non-adjacent QAM channels (per module)
	Output range	48~999 MHz(Annex A/C, or Annex B)
	Bandwidth	6/7/8MHz
	QAM constellations	ITU-T J.83 Annex A/C, B Annex A/C: 16, 32 ,64, 128, 256QAM Annex B: 64, 256QAM
	Symbol rate	3.0~6.952 Ms/s
	MER	≥43dB
	Output level	30~55dBmV(depending on the enabled channels)
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Management

-	HW interface:	100 x RJ45 (100Mbps)
	User interface:	LED indicators
		LCD screen
		Front panel control
		Web UI
		SNMP(Monitoring only)
Physical	Input Voltage:	90~260V AC
&Environment	Power consumption:	Max. 6oW
	Chassis dimension:	480mm x 44mm x 440mm (WxHxD), 1RU
	Operating Temperature:	o°C~50°C
	Storage Temperature:	-10°C~70°C
	Operating Humidity:	<95%
	MTBF:	≥100,000 hours

Ordering Guide

ADDING A CHASSIS		
SMP	Chassis with embedded 2 ASI IN & 2 ASI OUT and 64 IP IN & 12 IP OUT.	
ADDING OPTIONS TO	O SLOT ONE (fixed)	
TSIP	TSIP module, up to 256 MPTS/SPTS inputs	
ADDING OPTIONS TO SLOT TWO (fixed)		
IQAM	QAM module, 8 non-adjacent QAM modulation (license control)	
	QAM module, 16 non-adjacent QAM modulation (license control)	
ADDING OPTIONS TO SLOT THREE (optional)		
Scrambler+	CAS scrambling module	
IQAM	QAM module, 8 non-adjacent QAM modulation (license control)	
	QAM module, 16 non-adjacent QAM modulation (license control)	



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