

Type		IPQ BOX 16			
Order number		380 063			
EAN-Code		4026187280635			
IP interfaces		2 with overall 256 SPTS			
Network Interfaces					
Management		2x 1000 Base-T Ethernet (RJ 45) (10, 100, 1000)			
Data		2x SFP (1000 Base-X or SGMII) (optional)			
Bitrate per data port		1000/1000/1000/750 @ 1/2 Ports			
Protocols		Ethernet, ARP, IPv4, IPv6, VLAN, UDP, RTP, TCP, HTTP(S), SNMP, v2c/v3, Syslog, IGMP v2/v3, MLD v1/v2			
SAT-IF Interface					
Type of Interface	Ω	4 x Coaxial, 75			
Reflection loss	dB	10, typical			
Remote supply voltage	V	13,0 - 20,3			
Remote supply current	mA	max. 400 (per input)			
Demodulator					
Frequency range	MHz	950 – 2150			
Standards		DVB-S, DVB-S2(X)			
Input symbol rate DVB-S	MS/s	1,0 - 54			
Input symbol rate DVB-S2(X)	MS/s	min: 2,0			
		Actice RX:			
		1-16	1-4, 9-12	1-4*	
		QPSK	45	64	70
		8PSK	29	46	70
		16APSK	22	35	70
		32APSK	17,5	28	56
		64APSK	14,5	25	46
		128APSK	12,5	23	40
		256APSK	11,0	21	35
Input level	dBμV	60 – 90 (32 channels)			
CI Interfaces					
CI Slots		6x (front access)			
CI data rate	MBit/s	70			
Supported modules		Al Jazeera Sports, Alphacrypt, Aston, Conax, Cryptoworks, Diablo, Dragon, Dreamcrypt, Entavio CAM, Free-X TV, Giga, GkWare BISS CAM, Homecast CAM, ICECrypt, Irdeto Access, Joker, Kid CAM, Magic Module, Mascom Cryptoworks, Matrix CAM, Mediaguard Canal Digitaal, Nagravision, Oasis CAM, PCMCIA Cam, PowerCam Pro, Premiere Worldcam, T-Rex Twin Module, TechniCAM Beta2, Technicrypt, TPS, Reality CAM, SMiT, Ultimate CAM, Universal CAM, Viaccess, Videoguard CAM, X-Cam, Zetacam Blue			
Connections		6x PCMCIA			
Transportstream processing					
TS Decapsulation		UDP, UDP/RTP, 1 - 7 packets, FEC (SMPTE 2022-1, -2)			
Packet length		188 Bytes			
Data rate adjustment		☒			
PCR correction		☒ (< 500 ns accord. DVB)			
NIT handling		static, NIT out of PID, dynamic			
QAM Modulator					
Modulation		16-, 32-, 64-, 128-, 256-QAM			
Signal processing		DVB EN 300 429, ITU J.83 A/C			
Spectrum shaping		cos-roll-off (12%, 13%, 15%, 18%)			
FEC		Reed-Solomon (204,188)-Code			
Symbol rate	Msym/s	1 - 7,14			
Bandwidth	MHz	1,12 - 8 (depends on symbol rate)			
Max. number of output channels		16			
Max. bit rate per output channel	Mbit/s	52,64			
Phase error dynamic		< 0,3°			
MER (EQ)	dB	≥ 44			
Shoulder attenuation	dB	> 56			
RF Modulator					
Connectors		2x F-jack 75 Ω (1x RF, 1x Testpoint -20 dB)			
Frequency range	MHz	47 - 1006, digitally modulated			
Frequency deviation	kHz	< 10			
Output level	dBμV	96 @ 16 channels			
Common data					
Power consumption	W	typical 50, max. < 75			
Input voltage	V	230			
Dimensions (W x H x D)	mm	wirhout mounting brackets: 19 Zoll, 2HU; 422 x 86,5 x 220 with mounting brackets: 480,6 x 87 x 220			
Installation height / Operating height	m	≤ 2000 N.N.			
Ambient temperature	°C	0 ... +45			