

# X-QAM twin 3

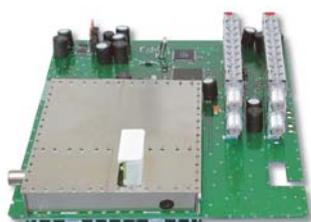
Plug-in cards X-Series



## Professional Head End

SAT twin-digital

GERMANY



X-QAM twin 3

Used for processing and conversion of two QPSK modulated SAT-IF signals to QAM modulated adjacent channels in the frequency range from 47 to 862 MHz. Thanks to the integrated stuffing unit, PCR correction, PID filter as well as the NIT construction in both channels the X-QAM twin 5 is suitable for a variety of today's and future applications.

The two output channels can be switched on and off separately from one another. Each board has an electronic level control for level matching of the individual plug-in boards to the same output level.

## ASTRO:X-QAM twin 3 | Specification

Typ		X-QAM twin 3
Order no.		330 581
<b>QPSK Demodulator:</b>		
Input F req.-range	[MHz]	920-2150
SAT IF input	[Ω]	F-jack, 75
Input level	[dBμV]	50-80
Spectrum shape	[%]	35
Input data rate adjustable	[MBaud]	10,0-30,0
Viterbi-Decodierung (DVB-Standard)		1/2; 2/3; 3/4; 5/6; 7/8, automatic/manuel
<b>QAM-Modulator:</b>		
Modulation		16-, 32-, 64-, 128-, 256-QAM (digital realization)
Signal processing		compliant to DVB-Standard
Spectrum shape cos-roll-of	[%]	15
FEC		Reed-Solomon (204,188)-Code
Data rate adjust		✓
PCR-Correction		✓
PID-Filterung		—
NIT-Handling		—
Output symbol rate	[MBaud]	dep. on input data ratio
Bandwidth	[MHz]	dep. on input data ratio
Brutto data rate	[Mbits]	dep. on input data ratio
<b>HF output:</b>		
Connections	[Ω]	IEC-Jacks, 75
Frequency range	[MHz]	47-862 (C2-C69) (1-MHz-steps adjustable)
Output level	[dBμV]	80...96, adjustable
MER (Equalizer, 64 QAM)	[dB]	≥ 37
Shoulder attenuation	[dB]	≥ 49
Spurious frequency distance	40-862 MHz >950 MHz	[dB] > 60 discrete disturbancies > 57 noise similar disturbancies > 20 referred to 100 dBμV system level und 90 dBμV operation level

