

STREAMLINE

Edge QAM

OE 01



Product information



Versions:

OE 01 0800	8 channel IP-QAM Converter
OE 01 1600	16 channel IP-QAM Converter
OE 01 2400	24 channel IP-QAM Converter
OE 01 3200	32 channel IP-QAM Converter

Features:

- Multi channel QAM processor for DVB over IP signals
- UDP over IP protocol
- PCR correction
- NIT replacement
- SNMPv2c network management
- 1 Gigabit Ethernet input for 8 MPTS/QAM channels

...a link to the future

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Input	
Gigabit Ethernet	1000 BaseT
Protocol	MPEG over UDP/IP ARP, ICMP IGMP V2 (V3 prepared)
IP adress unicast	same port for different channels is not possible
IP adress Multicast	same IP address and same port for different channels is not possible
IP jitter removal	up to 100 ms
TS format	MPTS , CBR
TS datarate	<= QAM datarate
max. input PCR jitter	<= 10 μ s
QAM processing	
Constellations	32-,64-,128-,256-QAM
Bonding	same constellation 4 channels
Symbol rate	4,48 – 7,00 MSymbols/s
Bonding	same symbolrate 8 channels
Roll-Off	15%
MER	> 40 dB, typ. 42 dB
Spectrum flatness	$\pm$ 0,2 dB
Echo pattern	< - 34 dB
Output	
Output impedance	75 Ohm
Output frequency	45 – 862 MHz
Bonding	same channel offset 4 channels
Output frequency step	12,5 kHz
Output level 8 ch. unit@RFout	1 ch. switched on 104 dB μ V 2 ch. switched on 101 dB μ V 4 ch. switched on 98 dB μ V 8 ch. switched on 95 dB μ V
Output level setting	0 .. 20 dB (0,5 dB steps)
Bonding	same output power 4 ch., 8 channels in $\pm$ 3 dB
Shoulder attenuation	$\geq$ 55 dB
Output frequency accuracy	5 ppm
Output return loss	$\geq$ 14 dB
Spurious attenuation	> 58 dB

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exceptions:

	spurious attenuation/dB					
spurious frequency/MHz	269	538	605	740	750	807
OE01 3200	>55	>56	>49	>47	>56	>52
OE01 2400	>56	>58	>52	>49	>58	>53
OE01 1600	>58	>58	>55	>53	>58	>56
OE01 0800	>58	>58	>58	>58	>58	>58

Output

Phase noise @ 10 kHz	> 94 dBc/Hz
Wideband noise (32 channels, 94dBuV/ch)	< -28 dBuV/Hz
Test output	- 20 dB

Applicable standards

ITU-T J.83 Annex A	Cable networks for television systems HE equipment
EN 300 429	DVB for cable systems

General data:

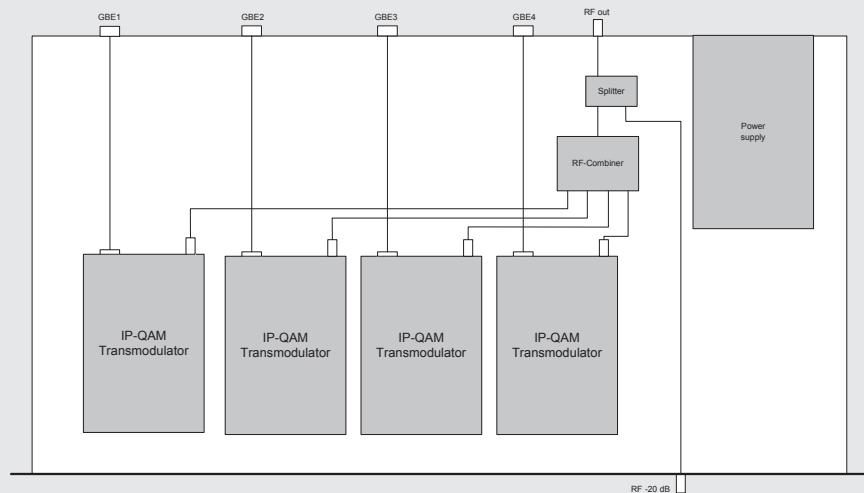
Housing	19 " 1HE	
Size	440 x 440 x 40 mm	
Signaling	Power (8 channels) Error (8 channels)	
Connectors	Gigabit Ethernet RF-Output, test Power	4 x RJ45 1000BaseT F-connector IEC603320 inlet
Power consumption	OE 01 3200	< 65 W
	OE 01 2400	< 55 W
	OE 01 1600	< 45 W
	OE 01 0800	< 30 W
Operating temperatur range	0°C to 45°C	
Nominal temperatur range	5°C to 40°C	
Relative humidity	max. 80% non-condensing	

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Block diagram

OE 01 3200



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