

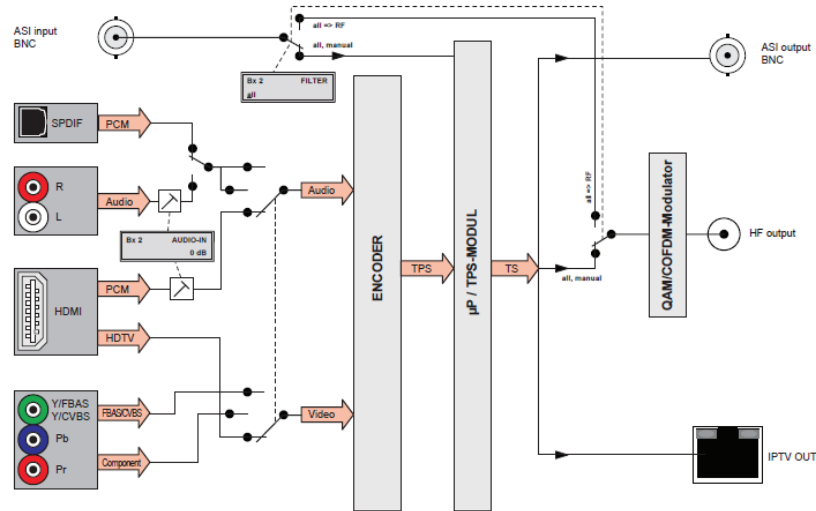
PROFESSIONAL MODULATOR AV HD/SD TO DVB-T / DVB-C / IP

Input
HDMI
YPbPr
CVBS

Input /
output
ASI

Output
COFDM
QAM
IP

BLOCK DIAGRAM



Technical especificacions. HD/SD AV to DVB-T / DVB-C / IP modulator

ETIFQ 800 HD+	
Code	2008501
Description	HD/SD AV to COFDM / QAM / IP encoder modulador
HDMI INPUT	
Connector	1 x HDMI 1.4a (tipo A, 19 Pin)
Supported video formats	1920x1080p24/i50/p50/i60, 1280x720p50/p60, 720x576i50/p50, 720x480i59/p59
Supported audio format	Linear PCM
COMPONENT VIDEO INPUT	
Connectors	3 x RCA (Y / Pb / Pr)
Input level	Y: 1 V _{pp} , Pb/Pr : 0,7 V _{pp}
Supported video formats	1920x1080i50, 1280x720p50, 720x576p50, 720x480p59
Supported standards	PAL
Input impedance	75 Ω
CVBS VIDEO INPUT	
Connector	1 x RCA
Input level	1 V _{pp}
Frequency range	20 Hz ~ 5 MHz
Supported standards	PAL BG
Input impedance	75 Ω
AUDIO INPUTS	
Optical S/PDIF audio connector	1 x TOSLINK
Optical S/PDIF audio format	Linear PCM
Analogous Stereo audio connectors	2 x RCA
Input level	500 mV _{rms}
Frequency range	20 Hz ~ 15 KHz

MPEG-4 ENCODER	
Video codec	H.264/AVC High Profile Level 4.0
Transport Stream total data rate (video + audio + tables)	1 Mbit/s ~ 30 Mbit/s
Video data rate	1920x1080p: 6 Mbit/s ~ 30 Mbit/s, 1920x1080i: 6 Mbit/s ~ 24 Mbit/s, 1280x720p: 4 Mbit/s ~ 24 Mbit/s, 720x576i: 1 Mbit/s ~ 10 Mbit/s; 720x480i: 2 Mbit/s ~ 10 Mbit/s
Audio data rate	32 Kb/s ~ 10 Kb/s
RF OUTPUT COFDM	
Connector	1 x IEC
Frequency range	42 MHz ~ 860 MHz
Channels	C5...C12 / C21...C69
Transmission mode	2k
Modulation	QPSK, 16 QAM, 64 QAM
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Guard intervals	1/4, 1/8, 1/16, 1/32
Return loss	> 8 dB
Output level	96 dB μ V
Output impedance	75 Ω
RF OUTPUT QAM	
Frequency range	42 MHz ~ 860 MHz
Channels	S21...C69
Modulation	QAM 4, 16, 32, 64, 128, 256
Output level	96 dB μ V
Output impedance	75 Ω
ASI INTERFACE	
Input / output connectors	BNC
Standard	DIN EN 50083-9
Format	MPEG ISO IEC 13818-1
Maximum data rate	108 Mbit/s
Level (Input / output)	800 mV _{pp} $\pm$ 10%
Impedance	75 Ω
Return loss (input)	> 17 dB (5 ~ 270 MHz)
LAN INTERFACE	
Connector	1 x RJ 45
Data rate	10/100/1000 MB/s
Transport stream	1 x SPTS/MPTS
Protocols	UDP, RTP
OTHERS	
RS-232 port	Yes, for software upgrading
Installation type	Inside CH 808 headend
Working temperature	0°C ~ +50°C
Dimensions (W x H x D)	34 x 281 x 200 mm
Weight	0,80 Kg
Packing quantity	1