

MD HD EASY QUAD - 122019

## Digital COFDM/QAM Modulator

### DESCRIPTION

Digital COFDM/QAM modulator. 4 HDMI inputs up to 1080p. Output frequencies: 170-230 MHz / 470-862 MHz. Output level: >95dBuV. RF mix input (5-862 MHz). USB recorder/player + USB for programming professional parameters



### STRENGTHS

- HD COFDM/QAM Digital Modulator-Encoder with 4 Independent HDMI Inputs
- Excellent modulation quality with a MER of  $\geq 34$  dB for COFDM and  $>39$  dB for QAM
- Resolution up to 1080p to ensure maximum image clarity
- Generation of 2 independent, separately configurable digital MUXes on a single RF output
- High-Performance USB 3.0 Recorder/Player for .ts Files
- Intuitive navigation and quick parameter adjustment using a physical joystick and integrated OLED display
- Easy advanced programming using PC software (MDFDSoft)



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## TECHNICAL SPECIFICATIONS

REFERENCE	MD HD EASY QUAD
Code	122019
Tickets	4 x HDMI 1.4
Number of outputs	1 (2 independently configurable multiplexers)
RF Loop (dB)	-4
<b>VIDEO</b>	
Video resolution	480p, 576p, 720p, 1080i, 1080p
Video Compression	MPEG-4 H.264
Video bitrate (Kbps)	1000 - 15000
<b>AUDIO</b>	
Audio Compression	AAC-LC, MPEG-1 L2
Audio rate (Kbps)	128, 192, 256, 320, 384
Sampling Frequency (HDMI)	32 kHz, 44.1 kHz, 48 kHz
<b>COFDM MODULATION</b>	
DVB Processing	PAT, PMT, SDT, NIT
DVB Settings	Channel/network name, SID, LCN, TSID, ONID, NID, versions, PMT PID, Video PID, Audio PID
Output Frequency (MHz)	170-230 y 470-862
Output Channel (N.)	5..12 - 21..69
Output Level (dB $\mu$ V)	>95
Attenuation (dB)	0..15
MER (dB)	$\geq$ 34
Bandwidth (MHz)	6 , 7 , 8
Constellation	QPSK, 16QAM, 64QAM
Mode	2K
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Guard interval	1/4, 1/8, 1/16, 1/32
LCN	EACEM, ITC, NORDIG (Selection by country)
<b>QAM MODULATION</b>	
DVB Processing	PAT, PMT, SDT, NIT
DVB Settings	Channel/network name, SID, LCN, TSID, ONID, NID, versions, PMT PID, Video PID, Audio PID
Output Frequency (MHz)	47-862
Output Channel (N.)	5..12 - 21..69
Output Level (dB $\mu$ V)	>95
Attenuation (dB)	0..15
MER (dB)	>39
Constellation	QAM 16, 32, 64, 128, 256
LCN	EACEM, ITC, NORDIG (Selection by country)
Symbol rate (kbps)	2000 - 7000

## USB

Connector	USB 3.0 (Recording and Playback of .ts Files)
Connector	Micro USB (Programming via PC)

## GENERAL

Supply voltage (Vdc)	5 (external power supply included)
DC Connector Type	2.1 / 5.5 mm
Power consumption (W)	<17,5
Operating temperature	0°C to +45°C
Dimensions (mm)	250 x 110 x 45
Weight (kg)	0,7