



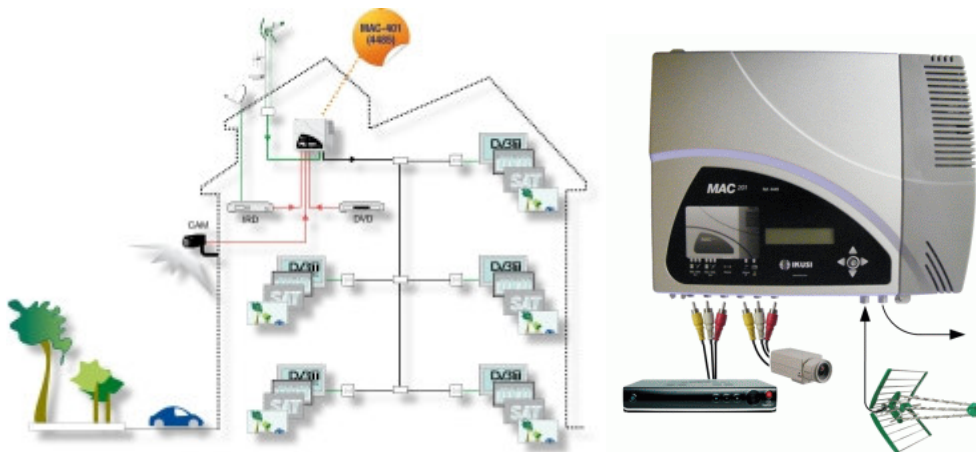
MAC-401 - Four AV to COFDM Modulator
Digital Output Headends - Compact Case Digital Modulator



For the first time! A solution for the AV input problem in an all digital world. The MAC-401 has been specifically configured into a low cost stand alone case designed for the purpose of converting existing A/V outputs from analogue sources into a 'Freeview' compatible digital multiplex.

The MAC-401 works by offering the incoming A/V signals into an MPEG-2 encoder whereby the signals are converted into a digital bit stream. This is modulated into a COFDM multiplex occupying an 8MHz bandwidth.

With an onboard LCD programmer or via a conventional PC or laptop (using web browser), our simple menu based setup screen allows the titling and channel numbering with a whole host of extra features, such as channel tuning and level adjustment.



Use for converting to COFDM from AV sources: satellite receivers, CCTV cameras and DVD players or distributing in-house channels.



Input

Video: 4 x CVBS (composite)
Video input level: 0.7...1.4Vpp
Video input codifications: PAL/NTSC/SECAM
Audio Input: 4 x mono/stereo
Audio input level: 0.5...4Vpp (RCA cx)
Connectors: RCA

Processing

Audio compression: MPEG 1 layer II
Video compression: MPEG2 MP@ML
Maximum resolution: PAL 720x576@25fps; NTSC 720x480@30fps
Quality: DVD Full D1
Insertion of PSI/SI tables: PAT, PMT, SDT, NIT, TDT, TOT, EIT
LCN processing: YES
Editable Channel and Info titles: YES

Output

Output standard: ETSI EN 300 744 (DVB-T)
Carriers: 2K, 4K, 8K
Output format: QPSK, 16QAM, 64QAM
Guard intervals: 1/4, 1/8, 1/16, 1/32
Code rate: 1/2, 2/3, 3/4, 5/6, 7/8
Output frequencies: 51...858MHz
Off set frequency steps: Down to 1kHz
Channel bandwidth: 6,7,8MHz
Maximum output level: 80 dB μ V
Output attenuation: 0...-15dB
MER (typical): 38dB

General

Voltage: 230-240Vac
Power consumption: 0.45A / 30W
Temperature range: 0...+45°C
Weight: 2.5kg
Dimensions: 302x251x44mm

Interface

Standard: Ethernet 10Base-T
Local interface: LCD + joystick
Remote interface / updates: Web / Ethernet