

### CM14 MPEG2 / COFDM Coder Modulator

*This module implements MPEG2 video / audio coding and a narrow band COFDM modulator using a subset of robust DVB-T modulation modes on a single card. Its low power consumption makes it ideal for use in both portable and fixed equipment.*

#### COFDM Subsystem

Standard: scaled DVB-T  
Channel bandwidths: 2,3,4 MHz

FFT size: 2K  
Modulation: QPSK\*  
FEC: 1/2, 2/3\*  
Guard interval: 1/32, 1/16\*.

#### Video Coding

MPEG2 Main Profile @ Main Level,  
I,P and B frames supported.  
Bit rate: 2-4 Mbit/s, depending on  
modulation parameters.

#### Video Interfaces

Composite PAL/NTSC,  
Y/C.  
Video Resolutions supported:  
720x576/480, 360x576/480,  
360x288/240.

#### Audio Coding

Stereo MPEG2 Audio, bit rate  
128Kbit/s\*,  
sampling rate 48KHz.

#### Audio Interface

2x high impedance balanced (600  
Ohm optional).

#### RF Output

Frequency 250 – 2750MHz  
(Frequency band determined by  
component selection, typical tuning  
range 20% of centre frequency).  
Output power: -10 to -5dBm, depending  
on frequency band.  
Synthesiser step: 200KHz.

#### Serial Control/Status Interface

RS232, 38.4K baud, 8bits, 1 stop bit, no  
parity.

#### Configuration Switch

Up to 16 preset or user defined  
configurations, controllable by  
hexadecimal switch .

#### Power

Input voltage 6 to 30V.  
Power consumption 2.5W typical.

#### Connectors

Composite Video: MMCX,  
RF out: MMCX,  
Power, Audio,Y/C Video, Control – 14 pin  
Micromatch.

#### Dimensions

Board size: 100mm x 80mm.

*\* - Other parameters available, contact us  
for details*