

CM18 MPEG2 / DVB-T Coder Modulator

This module implements MPEG2 video / audio coding and 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.

DVB-T Subsystem

Standard: DVB-T to EN300-744
Channel bandwidths: 6,7,8MHz
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: 4-8 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 – 2700MHz
(Frequency band determined by
component selection, typical tuning
range 30% of centre frequency).
Output power: -5 to 0dBm, 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 35V.
Power consumption 3.5W 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*