

CM12 MPEG2 / COFDM Coder Modulator

The CM12 module implements Videsco's proprietary narrow band COFDM system which makes efficient use of scarce bandwidth. Its low power consumption makes it ideal for use in both portable and fixed equipment. This module is not available for use in military or police applications.

COFDM Subsystem

Standard: Videsco proprietary.
Nominal bandwidth: 2MHz.
Bitrate: standard mode 2Mbit/s ,
robust mode 1Mbit/s.
FFT size: 256 point.
Forward Error Correction: 3D Turbo
Product Code.

Video coding

MPEG2 Main Profile @ Main Level
I,P and B frames supported.
Bit rates: 2 or 1 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
(other configurations available on
request).

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.

Scrambling

Proprietary 32 bit fixed key system.

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.