

DM22 Narrow-band COFDM Demodulator

The DM22 module demodulates Videsco's proprietary 2MHz bandwidth COFDM system to transport stream. It is compatible with the signals generated by the CM12 and M22 cards, and is designed to interface to an external RF receiver / downconverter. Its transport stream output connects directly to the DS21 MPEG2 decoder.

This module is not available for use in military or police applications.

COFDM System

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.

IF interfaces

One or optionally two inputs (for
diversity).
Input frequency: 36MHz*.
Nominal signal input power: -3dBm
Input impedance: 200 Ohm.

Diversity Systems

Implements Orthogonal Spatial
Diversity (OSD) for use with dual
output M22 module (see M22
product brief), or maximum ratio
combining diversity with single
output M22 or CM12 modules.

Transport Stream Output

Standard 8bit parallel interface at
3.3V logic levels. Interfaces directly
to DS21 MPEG2 decoder.

* Other frequencies to approximately
50 MHz possible

Serial Control/Status interface

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

The module can also be controlled by a
three wire serial interface from the DS21
MPEG decoder card.

Scrambling

Proprietary 32 bit fixed key system.

Note that this system is intended to
prevent casual interception of signals by
other users of this equipment. It is not
designed to offer a high degree of
cryptographic security.

Power

Input voltage 5V, 3.3V (can be supplied
from DS21 decoder).
Power consumption 1.5 to 2.5W,
depending on options.

Connectors

Digital I/O / power connectors - 0.1 inch
box headers:
TS out - 40 way, RS232 / power - 14
way.

IF inputs: SMB.

Dimensions

Board size: 100mm x 80mm.