

### ES21 Single Board MPEG2 Coder

*This board encodes 625 line or 525 line video. The board is primarily intended for use in conjunction with the M22 or M28 COFDM modules.*

#### Video Coding

MPEG2 Main Profile @ Main Level.  
I,P and B frames supported.  
Bit rate: 1-15 Mbit/s.

#### Video Interfaces

Analogue:  
Composite PAL/NTSC, Y/C.

Digital:  
Parallel Rec 656 input @ 3.3V logic levels. Suitable for connection to an external SDI interface.

#### Video Resolutions

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).  
Optional digital interface.

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

#### Control / Configuration

The board is based on a special purpose DSP processor which requires code download to operate. This function is normally performed by Videsco's M22 or M28 COFDM modulator cards. These cards also control coding parameters. However, configuration / control is also possible from any general purpose microprocessor.

#### Power

Supply voltages 5V, 3.3V, 1.8V.

These voltages can be supplied by the M22 or M28 COFDM modulator cards.

#### Connectors

Composite Video: SMB.  
Y/C video: 4 pin 0.1 inch pitch connector.  
Analogue audio : 6 pin 0.1 inch pitch connector.  
Power /control: 26 way 0.1 inch box header.  
Transport stream out: 26 way 0.1 inch box header.  
656 digital video / digital audio in: 40 way 0.1 inch box header.

#### Dimensions

Board size: 100mm x 80mm.