

### DS21 MPEG2 Decoder

*The DS21 is a general purpose, standard definition MPEG2 decoder which is compatible with Videsco's CM12, CM18 and ES21 encoders. It interfaces directly to the Videsco DM22 proprietary COFDM demodulator.*

#### Video decoder

Decodes MPEG2 to ISO/IEC 13818-2 (SP@ML, MP@ML).  
Maximum supported resolution:  
720x576 (PAL/SECAM)  
720x480 (NTSC).

#### Audio decoder

Decodes MPEG audio layer 1 or 2, one stereo pair supported.

#### Transport stream inputs

Two standard 8 bit parallel transport stream inputs, selectable under software control\*.

#### Video interfaces

5 x 75 Ohm analogue outputs which can be configured\*\* to provide:

Composite PAL/NTSC/SECAM  
Y/C  
RGB (S)  
YCrCb (S).

Digital parallel: ITU rec 656 @ 3.3V logic levels.

#### Audio interfaces

2 x analogue, 600 Ohm balanced outputs.  
S/P DIF digital output.

\* One input shared with 656 output

\*\* Not all outputs available simultaneously

#### On card processor

130 MHz 32-bit RISC CPU.

#### Control/Status interfaces

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

Keypad:  
Four arrow keys, enter key.

LCD display:  
Standard interface to drive a wide range of LCD displays.

The board also supports I<sup>2</sup>C and 3 wire interfaces for demodulator control.

#### Power

Input voltage 5V.  
Power consumption 2.5W typical.

#### Connectors

All connectors are standard 0.1 inch box headers:

Analogue video: 10 pin  
Audio: 6 pin  
RS232: 14 pin  
Transport stream: 26 pin  
656 output: 26 pin.

#### Dimensions

Board size: 100mm x 100mm