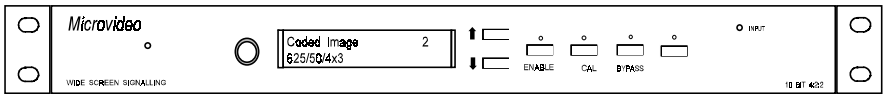
Microvideo

CSI-DEC

Control Signal Decoder

- **GPI outputs**
- **LCD Display**
- **RS232 / 422**



Microvideo are able to offer systems for sending and decoding basic control data within a digital video signal. These systems utilise the Vertical Blanking Interval (VBI) within the video signal. Data is decoded by a digital PLL, and while the encoding scheme allows for some deterioration of signal, it is assumed that the link between encoder and decoder will be of broadcast quality. It is also assumed that any video compression applied to the signal after encoding will pass the VBI lines through as video. The deoder has a realtime clock and any changes to the data are logged and also sent to the serial port.

This data sheet describes the Control Signal Decoder. The encoder has part number INS-CSI, the specifications of this are available on a seperate data sheet.

Specifications

Video Input: SDV(270Mb/s) as per SMPTE259M

Video Output: 2 x SDV(270Mb/s) - Program and AUX
n.b: Program and AUX outputs are the same, but a power-fail bypass relay connects SDV In to only the Program output when no power is applied.

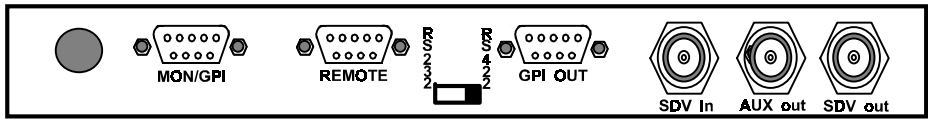
Control Data Outputs: Four GPI outputs (open collector, active on connection to ground) on 9 way D-type.

Front Panel Controls: GPI output enable/disable (when disabled GPI outputs are not driven)
Test mode (Allows GPI outputs to be set from front panel)
Status (shows whether signal is valid, invalid or not present)

Physical: 1U rack mounting frame with integral PSU.

Product Code: CSI-DEC: VBI control signal decoder for SDV (270Mb/s), 4 x GPI out.

Rear Panel:



Related Products: INS-CSI: VBI control signal inserter for SDV (270Mb/s), 4 x GPI in

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