

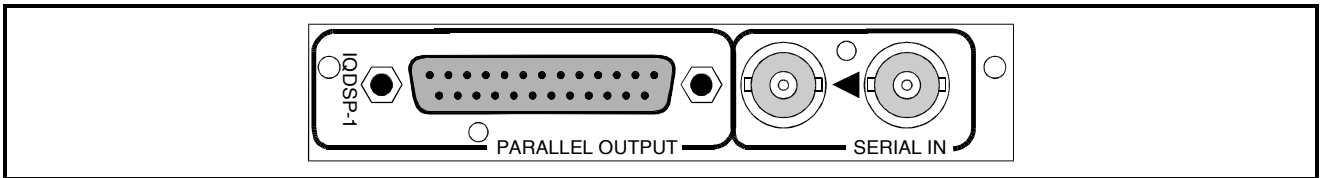
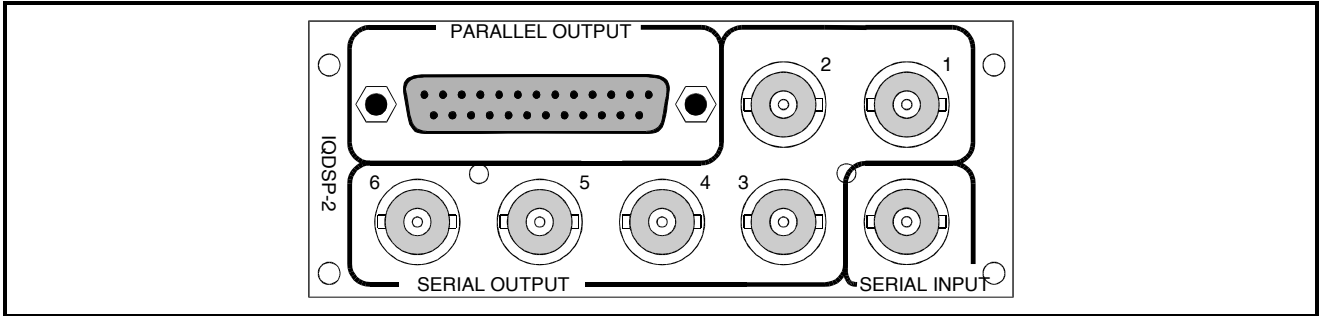
IQDSP Serial to Parallel Converter



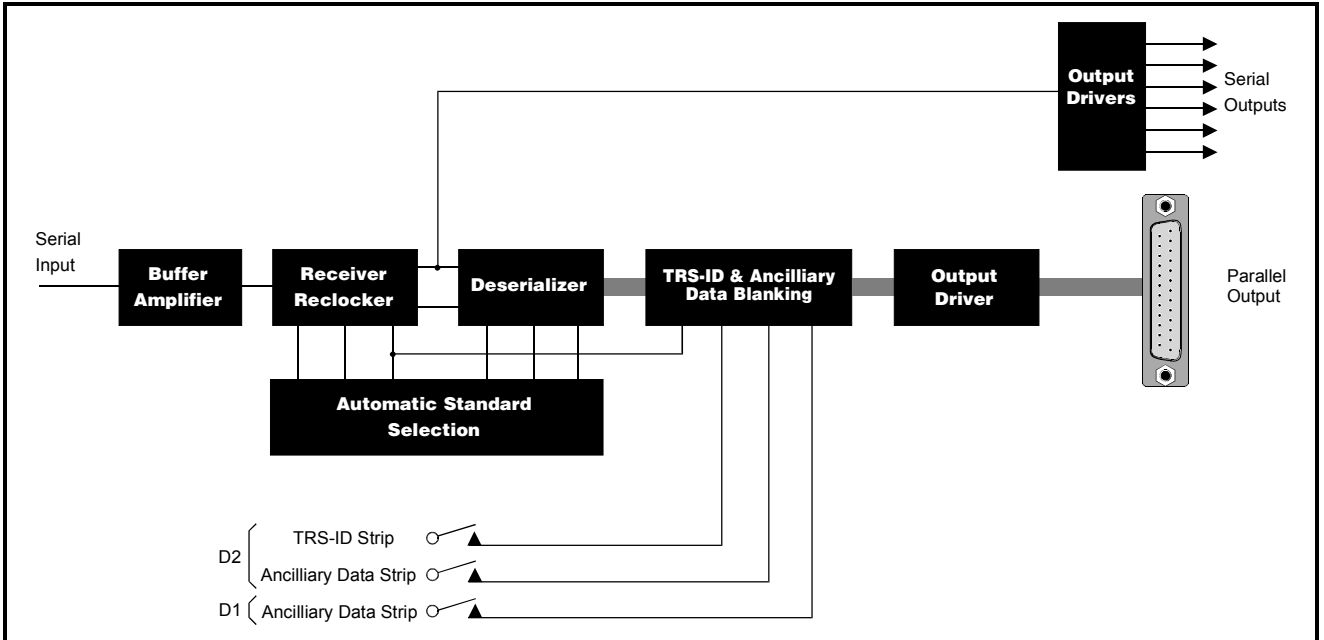
Module Description

The IQDSP converts serial 4:2:2/4fsc format to parallel 4:2:2/4fsc format. Auto input format detection as standard.

REAR PANEL VIEWS



BLOCK DIAGRAM



Features

- Converts serial 4:2:2 or 4fsc (NTSC or PAL) to parallel 4:2:2 or 4fsc
- 6 x buffered serial 4:2:2/4fsc outputs
- Automatic detection of input format
- Input equalizer and reclocker for use as a line receiver and distribution amplifier

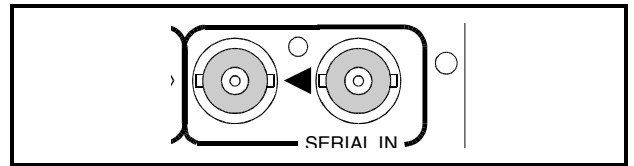
Versions of the module cards available are:

QDSP-2	Serial to parallel converter D1/D2, one parallel and six serial outputs	Double width module
IQDSP-1	Serial to parallel converter D1/D2, one parallel and one serial output	Single width module

INPUTS AND OUTPUTS

SERIAL INPUT

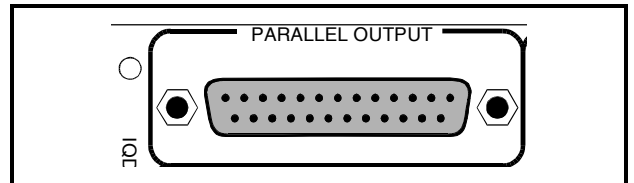
The serial digital input to the unit is made via this BNC connector which terminates in 75 Ohms.



PARALLEL OUTPUT

The parallel digital output of the unit is via this 25-way 'D' connector.

The pinouts are industry standard to "REC. 656: Interfaces for Digital Component Video Signals in 525-line & 625-line Television Systems "

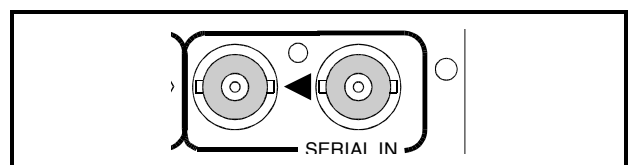
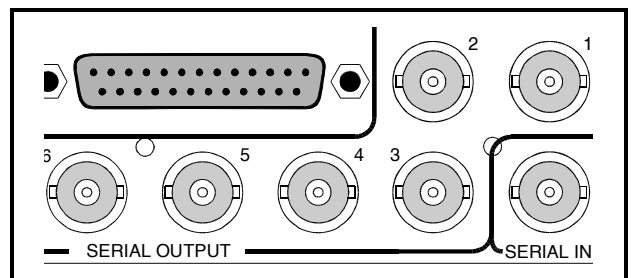


- | | |
|-----------------|------------------|
| 1 clock A | 14 Clock B |
| 2 system ground | 15 System ground |
| 3 Data 9A (MSB) | 16 Data 9B |
| 4 Data 8A | 17 Data 8B |
| 5 Data 7A | 18 Data 7B |
| 6 Data 6A | 19 Data 6B |
| 7 Data 5A | 20 Data 5B |
| 8 Data 4A | 21 Data 4B |
| 9 Data 3A | 22 Data 3B |
| 10 Data 2A | 23 Data 2B |
| 11 Data 1A | 24 Data 1B |
| 12 Data 0A | 25 Data 0B |
| 13 Cable shield | |

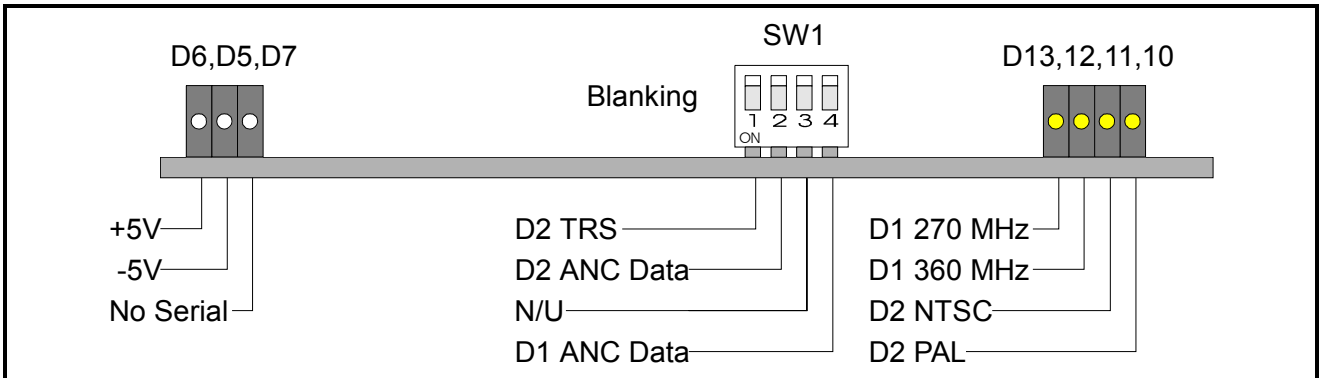
... where 'xxxA' is the compliment of 'xxxB'

SERIAL OUTPUTS

These are the 6 (-2 version) or 1 (-1 version; this is an active loop-through) isolated Serial Digital outputs of the unit via BNC connectors for 75 Ohms.



CARD EDGE CONTROLS

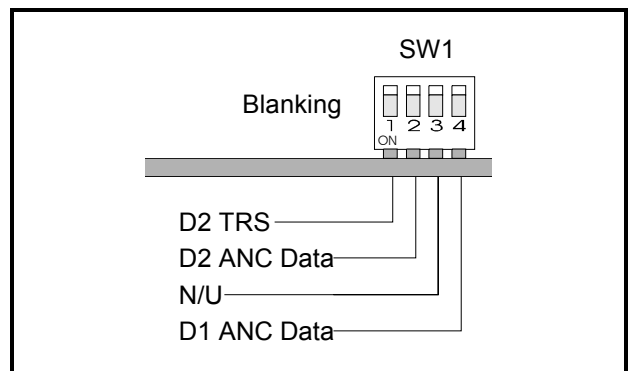


SW1 (BLANKING)

By setting switches to the ON position various blanking modes may be enabled.

- Position 1 This blanks TRS codes in D2
- Position 2 This blanks ANC data in D2
- Position 3 This position is not used
- Position 3 This blanks ANC data in D1

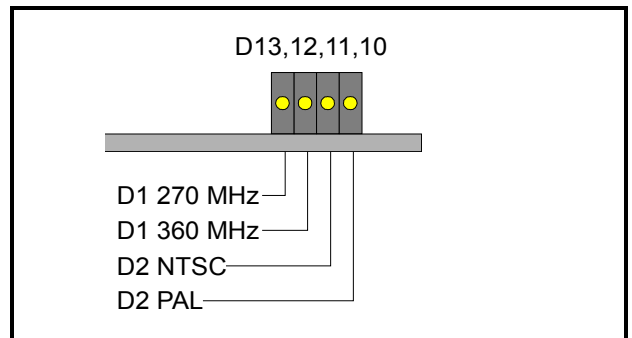
Note that this blanking function only applies to the parallel output signal.



LED INDICATORS D10,11,12 and 13

These indicate the serial input signal format or standard that is being processed by the module.

Note that in the absence of a serial input signal none of these LED's will be illuminated.



LED INDICATORS D5, 6 and 7

When D7 is illuminated this indicates that there is no serial input signal present.

When illuminated, D5 and D6 indicate that the -5V and the +5V power supplies are present.

