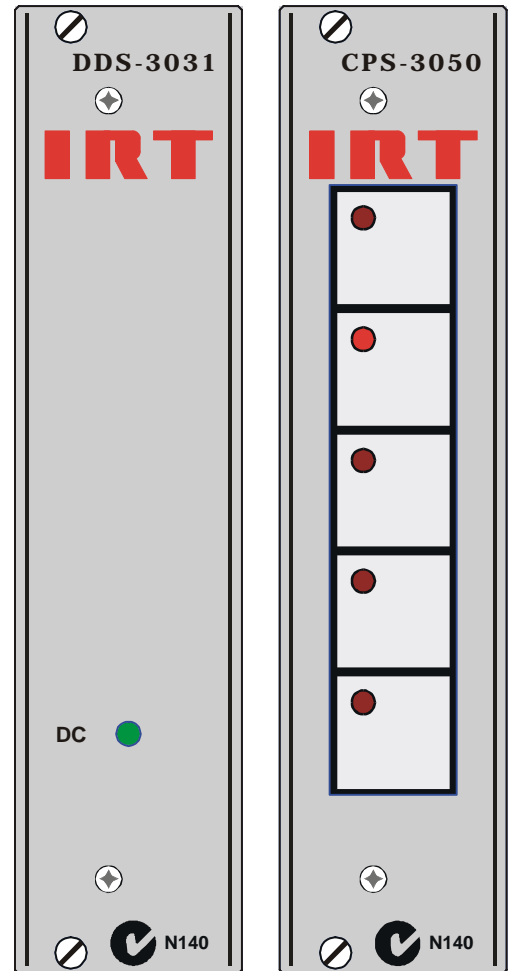


### Features:

- 5 x 1 RS422 / RS485 bi-directional data switch.
- May be cascaded to 20 x 1.
- Local or remote control options.
- Universal wire per crosspoint or binary coded remote control.
- Compatible with other 3000 series analogue & digital switchers.
- May be mounted in same frame as other IRT Eurocards including VDA's, ADA's, detectors and processors.



### General:

The DDS-3031 RS422 / RS485 bi-directional data switcher is part of a family of "smart" switchers in Eurocard format which may be linked and configured by the user to cover a wide range of switching and monitoring functions.

On board links allow several switchers to be joined for 10 x 1, 15 x 1 or 20 x 1 operation.

The switcher may be slaved to operate in conjunction with similar switchers for analogue video, stereo audio and serial digital video.

This makes the DDS-3031 ideally suited to situations such as editing suites where control signals need to be switched either individually or in conjunction with video and audio source selection.

Only the selected bidirectional path is active at any time with unselected data outputs reverting to tri-state. This allows switchers to be used in multiple combinations (subject to logical conflicts).

The CPS-3050 local control switch panel kit converts the switcher for stand alone operation.

The CPS-9001 remote control panel provides a 5 button control with on board addressing to allow formation of 10 x 1, 15 x 1 or 20 x 1 combinations. The switches have tally LED's and label inserts. Multiple panels may be used with tally to each panel.

# DDS-3031 Technical Specifications

## Data inputs:

Number 6. (One selected input active - other 5 'don't care'.)  
 Type RS422 / RS485.  
 Impedance >10 k $\Omega$ . Terminated with optional 330  $\Omega$  resistor.  
 Threshold level 200 mV differential for a common mode of -7 to +12 V.

## Data outputs:

Type RS422 / RS485.  
 Number 6. (One selected output active - other 5 tri-state.)  
 Level 5 V unloaded (differential).  
 >2 V (50  $\Omega$  load) (differential).

## Control inputs/outputs:

Type 5 bit BCD coded parallel TTL level.  
 or  
 individual grounding contacts.  
 Number 1 input & 1 output.

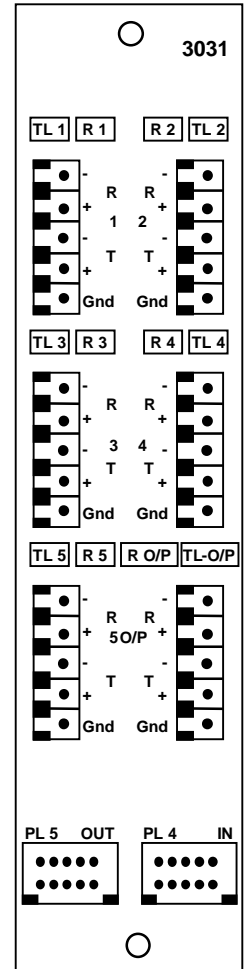
## Performance:

Switching Within 20 ms. Timing may be synchronised to another switcher.  
 Maximum data rate >2 Mb/s.  
 Power requirements 28 Vac CT (14-0-14) or  $\pm$  16 Vdc.  
 Power consumption <240 mA.

**Connectors:** Data Plug in 5 pin screw terminal block.  
 Control Plug in 10 pin dual IDC.

## Other:

Temperature range 0 - 50 $^{\circ}$  C ambient  
 Mechanical Suitable for mounting in IRT 19" rack chassis with input, output and power connections on the rear panel.  
 Finish: Front panel Grey enamel, silk-screened black lettering & red IRT logo  
 Rear assembly Detachable silk-screened PCB with direct mount connectors to Eurocard and external signals  
 Dimensions 6 HP x 3 U x 220 mm IRT Eurocard  
 Supplied accessories Rear connector assembly including matching connectors for inputs & outputs.  
 Optional accessories CPS-3050 local control conversion with 5 pushbuttons & tally LED's.  
 CPS-9001 remote control panel with 5 pushbuttons & tally LED's.  
 TME-6 module extender card



**Due to our policy of continuing development, these specifications are subject to change without notice.**

## Detailed specifications available from:

**Manufacturer:**  
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