Specification

Inputs				
Number	5DV2401 - 1 x 75W BNC			
	5DV2402 - 2 x 75W BNCs			
Standard	SMPTE 259M 143, 177, 270 & 360Mb/s			
Signal level	800mV ±10%			
Common mode rejection	30Vp-p at 50Hz			
Return loss	>22 dB			
Equalisation	Automatic to over 200m Belden 8281 at 270Mb/s			
Outputs				
Number	5DV2401 - 7 re-clocked x 75Ω BNC			
	5DV2402 - 3 re-clocked x 75Ω BNC per channel			
Standard	SMPTE 259M 143, 177, 270 & 360Mb/s			
Signal level	800mV ±10%			
Return loss	>18dB to clock frequency			
DC offset	0V ±0.5V			
Rise & fall time	400-700pS (20-80% amplitude)			
Overshoot	<10%			
Other				
Power supply required	230VAC 50Hz			
Temperature range	0°C to 40°C			
Power consumption	Approx 5VA			
Temperature range	0°C to 40°C			
Measurements relate to the 5DV2401 DA with the 5DV2491 connector unit in a 5AV2645 frame.				
Physical				
	Weight (kg)	Height (mm)	Width (mm)	Depth (mm)
5DV2401	600g	88mm(2U)	44mm(1U)	300mm
5DV2491	210g	88mm(2U)	44mm(1U)	120mm
5DV2402	600g	88mm(2U)	44mm(1U)	300mm
5DV2492	210g	88mm(2U)	44mm(1U)	120mm

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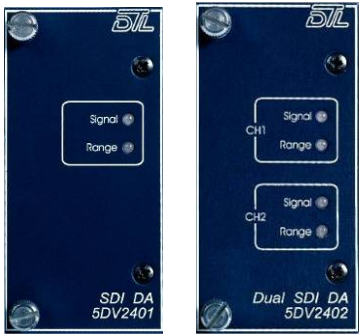
DTL 2600 range

User Guide



5DV2401 single & 5DV2402 dual channel SDI equalising & re-clocking distribution amplifiers

www.dtl-broadcast.com

Features

These modules are extremely compact SDI DAs. The 5DV2401 accepts an SDI input up to 360Mb/s & provides seven re-clocked outputs. The 5DV2402 accepts two SDI inputs up to 360Mb/s & provides three re-clocked outputs per channel. There is automatic cable equalisation for over 200m of cable. Front panel LEDs indicate input signal presence & end of equalisation warning. The associated rear connector units supply all input and output connections.

- 5DV2401 single channel DA has seven re-clocked outputs.
- 5DV2402 dual channel DA has three re-clocked outputs per channel.
- Accepts SDI up to 360Mb/s.
- Over 200m automatic cable equalisation.
- Front panel LEDs indicate input signal presence & end of equalisation warning.
- 5DV2401 requires the 5DV2491 rear connector unit.
- 5DV2402 requires the 5DV2492 rear connector unit.
- All 2600 modules are independently mains powered maximising reliability & isolation between modules

Installation

Systems are generally delivered with modules (including sub-modules) and associated rear connector units already installed and configured within frames to your requirements.

Before installing or re-arranging modules and rear connector units in 2600 series frames the 2600 range and frames user guide should be consulted. Section 1.3 ‘Safety and pre-installation checks’ includes instructions that must be followed. Section 2 describes how to install or re-arrange modules and rear connector units in 2600 series frames.

Rear connector units

The 5DV2401 requires 5DV2491 rear connector unit and the 5DV2402 the 5DV2492.

Input & output connections are marked on the rear connector units.

Front module

The DA fits into the frame from the front and is secured by two thumbscrews. This may be done with the frame powered.

There are two LEDs on the front of the 5DV2401 module. The SIGNAL LED will be green when there is a valid SDI input, red if not The RANGE LED will be green if the length of the input cable is well within the ability of the module to automatically equalise the signal & red if the cable length is approaching or exceeding the ability of the module to automatically equalise.

The 5DV2402 has two sets of LEDs which operate as for the 5DV2401.

There are no user adjustments.

Ordering information

5DV2401	SDI DA
5DV2491	SDI rear connector
5DV2402	SDI dual channel DA
5DV2492	SDI dual channel rear connector