Specification

Inputs				
Number	5DV2411 - 1 x 75W BNC			
	5DV2412 - 2 x 75W BNC			
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 - SDI				
Number	5DV2411 - 6 (or 5) re-clocked x 75Ω BNC			
	5DV2412 - 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%			
Outputs - Analogue				
Number	5DV2411 - 1 (or 2) 75W BNC output 7 (&5)			
	5DV2412 - 1 (or 2) 75W BNC on output 1 (&2) per channel			
Standards	Composite PAL B,D,G,H&I (default) or NTSC			
Return loss	36dB to 5MHz			
Signal level	1Vp-p ±10%			
DC offset	<100mV			
Differential gain	<1.5%			
Differential phase	<1.5°			
Delay	<10nS			
Other				
Power supply required	230VAC 50Hz			
Power consumption	Approx 5W			
Temperature range	0°C to 40°C			
Measurements relate to the 5DV2411 DA with the 5DV2491 connector unit in a 5AV2645 frame.				
Physical				
	Weight (kg)	Height (mm)	Width (mm)	Depth (mm)
5DV2411	600g	88mm(2U)	44mm(1U)	300mm
5DV2491	210g	88mm(2U)	44mm(1U)	120mm
5DV2412	610g	88mm(2U)	44mm(1U)	300mm
5DV2492	210g	88mm(2U)	44mm(1U)	120mm

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DTL 2600 range

Broadcast

User Guide

5DV2411 single & 5SD2412 dual channel SDI monitoring distribution amplifiers

www.dtl-broadcast.com

Features

These modules are extremely compact SDI monitoring DAs that accept 270Mb/s SDI inputs & provide PAL or NTSC analogue together with re-clocked SDI outputs. 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.

- 5DV2411 SDI monitoring DA accepts 270Mb/s SDI and provides a composite output and six re-clocked SDI outputs (or by moving a link two composite outputs and five re-clocked SDI outputs).
- 5DV2412 dual channel SDI monitoring DA accepts two 270Mb/s SDI inputs and provides a output and two re-clocked SDI outputs for each channel (or by moving a link for each channel two composite outputs and one re-clocked SDI output).
- Over 200m automatic cable equalisation.
- Front panel LEDs indicate input signal presence & end of equalisation warning.
- 5DV2411 requires the 5DV2491 rear connector unit.
- 5DV2412 requires the 5DV2492 rear connector unit.
- All 2600 modules are independently mains powered maximising reliability & isolation between modules

Installation

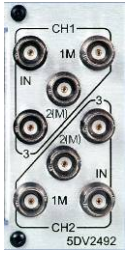
Systems are generally delivered with modules (including sub-modules) and associated rear connector units already installed and configured within frames to your requirements.

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 5DV2411 requires 5DV2491 rear connector unit and the 5DV2412 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.

Modules are delivered with PAL monitoring outputs. For NTSC move the link at the front of the module marked LNK1 from the position marked PAL to NTSC. (Links marked LNK2-4 should not be used.)

There are two LEDs on the front of the 5DV2411 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.

By default for the 5DV2411 one composite monitoring output is available (on output 7). To select a second monitoring output (on output 5), move the link close to the edge connector from the position marked CH2 SDI to CH2 MON.

There are no user adjustments.

The 5DV2412 has two sets of LEDs which operate as for the 5DV2411.

By default on the 5DV2412, for each channel one composite monitoring output is available (on output 1). To select a second monitoring output (on output 2) for the relevant channel (marked CH1 & CH2), move the link close to the edge connector from the position marked SDI to MON.

There are no user adjustments.

Ordering information

5DV2411	SDI monitoring DA
5DV2491	SDI rear connector
5DV2412	SDI dual channel DA
5DV2492	SDI dual channel rear connector