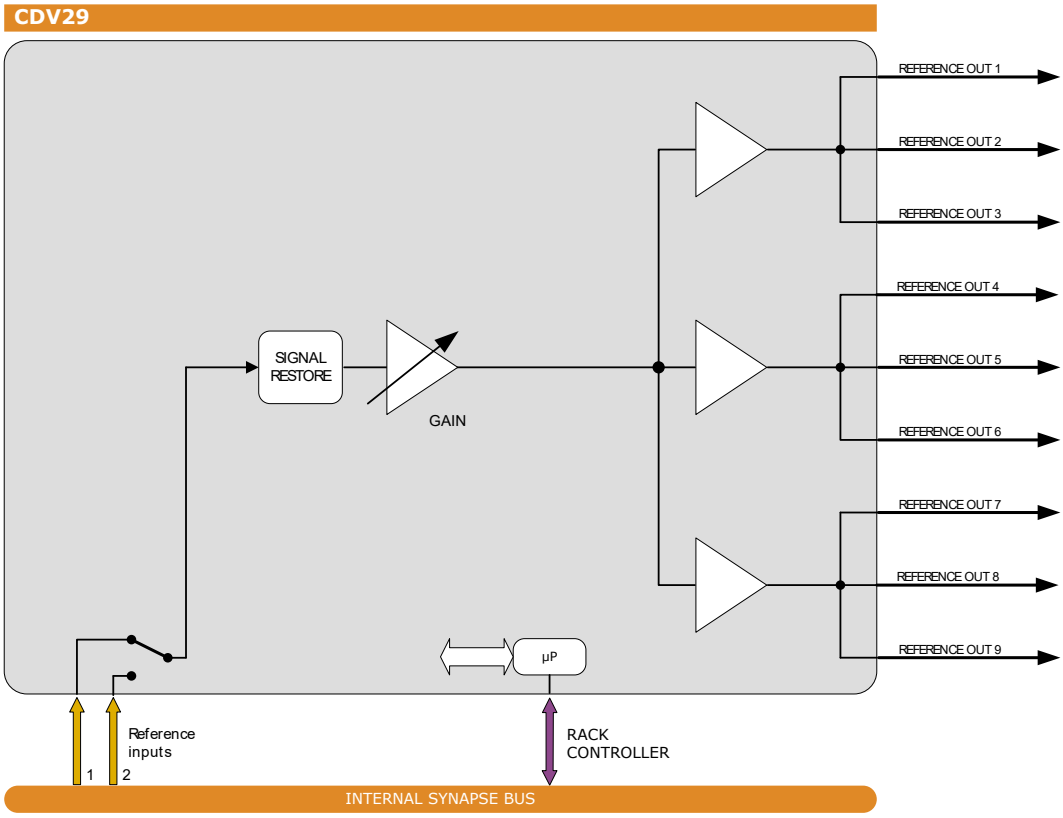
Synapse

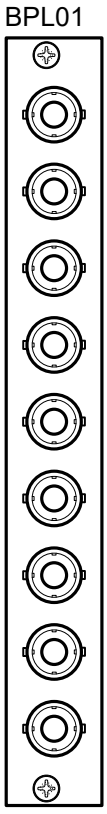
CDV29

Reference (B&B / Tri-Level) distribution amplifier with 9 outputs and Synapse reference inputs

A Synapse® product

Block schematic & I/O panel





REFERENCE OUTPUT 1

REFERENCE OUTPUT 2

REFERENCE OUTPUT 3

REFERENCE OUTPUT 4

REFERENCE OUTPUT 5

REFERENCE OUTPUT 6

REFERENCE OUTPUT 7

REFERENCE OUTPUT 8

REFERENCE OUTPUT 9

Features & Applications

The CDV29 is a basic analog distribution amplifier providing 9 buffered outputs via the use of the internal Synapse Reference distribution system.

- 9 outputs
- Adjustable input gain
- DC restored
- Compatible with Tri-Level sync
- +/- 6dB gain adjustment
- Back-up functionality. In case of reference loss, the card can automatically switch to other reference input.
- Input status detection
- Full control and status monitoring through the front panel of the SFR04/SFR08/SFR18 frame and the Ethernet port (ACP)

Applications

The CDV29 is designed for applications where a cost effective analog Tri-level or Bi-level (B&B) distribution is needed. The straightforward design enables easy installation and reliable operation.

- Tri-Level Sync distribution

Ordering information

Module:

- **CDV29-I/O:** Analog video distribution amplifier with 9 outputs and Synapse reference inputs

Standard I/O:

- **BPL01-PANEL:** I/O panel for CDV29

Specifications

Reference input through RRC

Number of Inputs	2 on SFR18, 2 on SFR08 and 1 on SFR04
Input levels	700 mV. White to black. nominal 1 V sync tip to white. 75 Ohms terminated through loop
Return loss	Measured with Mini Circuits ZFDC-15-6-75 > 40 dB, @ 5 MHz > 36 dB, @ 15 MHz > 28 dB, @ 30 MHz 75 Ohms terminated

Analog outputs

Number of Outputs	9
Output levels	1 V sync tip to white, 75 Ohms terminated
Return loss	Measured with Mini Circuits ZFDC-15-6-75 > 37 dB, @ 5 MHz > 34 dB, @ 15 MHz > 29 dB, @ 30 MHz. Other outputs 75 Ohms terminated

Performance

Frequency response	within 0,4 dB, 0 to 5 MHz.
Signal to noise ratio	66.5 dB. 10KHz to 6MHz, Tektronix VM700T
Bar tilt	0,1 %
Gain stability	1%

Miscellaneous

Weight	Approx. 250g
Operating Temperature	0 °C to +40 °C
Dimensions	137 x 296 x 20 mm (HxWxD)

Electrical

Voltage	+24V to +30V
Power	<4 Watts