

IQVDA02/03

Analog Video Distribution Amplifier

An ideal budget distribution amplifier with up to 14 high-quality outputs for analog video applications.

The IQVDA02/03 from Grass Valley provides up to 14 equalized analog video outputs.

Why should you choose this module?

- Ideal budget distribution amplifier for analog video applications
- Maintenance of video quality ensured by the 35 MHz frequency response
- Equalizer ensures the flat response (± 0.1 dB) to 15 MHz necessary for quality distribution

Key Features

- Up to 14 high-quality outputs
- Terminating input option allows extra output
- Equalizer, better than ± 0.1 dB to 15 MHz with 100m RG59 cable
- Balanced loop-through input
- 35 MHz bandwidth

Specifications

Inputs and Outputs

Signal Input

Video: 1 balanced loop-through (terminating input option)

Signal Outputs

Video: Up to 14 unbalanced outputs

Card Edge Controls

Control Ranges

Gain: +6 dB to -4 dB typical

Equalization: Equalizes up to 100m of RG59 to 15 MHz ± 0.1 dB

Indicators

Power: OK

Sync detect: OK (Green)

General Specifications

Frequency response:

0-100m RG59U (or equivalent)

15 MHz ± 0.1 dB

typ. -0.33 dB at 20 MHz

typ. -3 dB at 36 MHz

Differential gain: Better than 0.1%

Differential phase: Better than 0.1°

Signal/noise ratio: Better than 75 dB rms. (unified weighting filter)

Line tilt: Better than 0.5%

Output D.C.: ± 45 mV max. ± 10 mV typical

Insertion delay: 17 ns

Max. input level: +6 dB

CMRR:

Better than 55 dB at 50 Hz

Better than 45 dB at 250 Hz

Input return loss:

Better than 50 dB at LF

Better than 40 dB at 5 MHz

Better than 36 dB at 10 MHz

Headroom: +6 dB

Output impedance: $75\Omega \pm 1\%$

Output isolation:

Better than 38 dB to 5 MHz

Better than 36 dB to 10 MHz

Output return loss:

Better than 36 dB to 5 MHz

Better than 33 dB at 10 MHz

Gain: Unity $\pm 1\%$ as supplied

Power Consumption

Module power consumption:

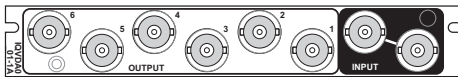
3W Max (A Frames)

2 PR (B Frames)

Ordering

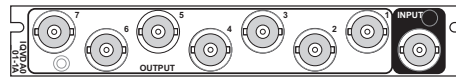
IQVDA0201-1A

Analog video DA. Loop-through input, 6 outputs.



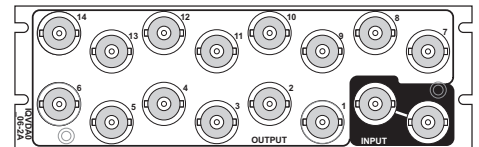
IQVDA0301-1A

Analog video DA. Terminating input, 7 outputs.

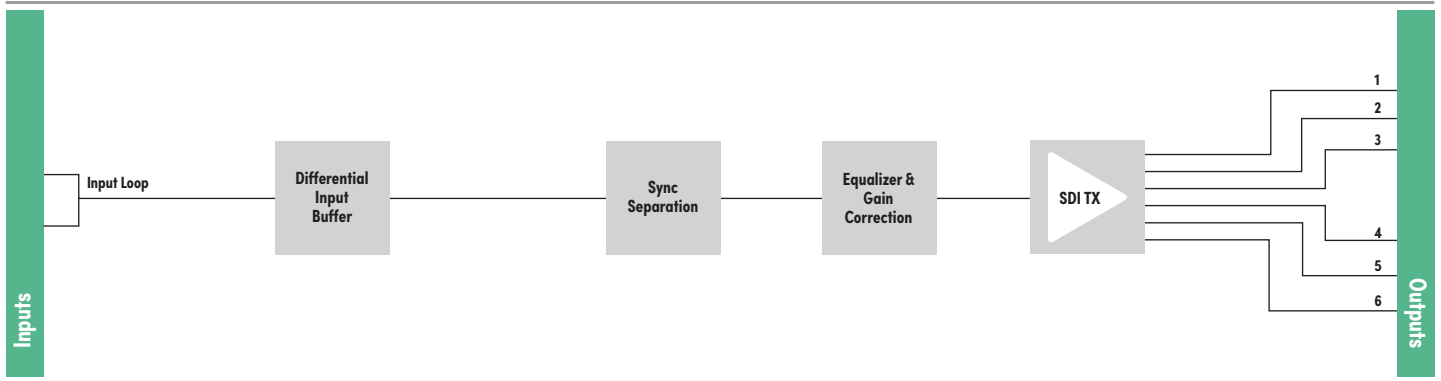


IQVDA0206-2A

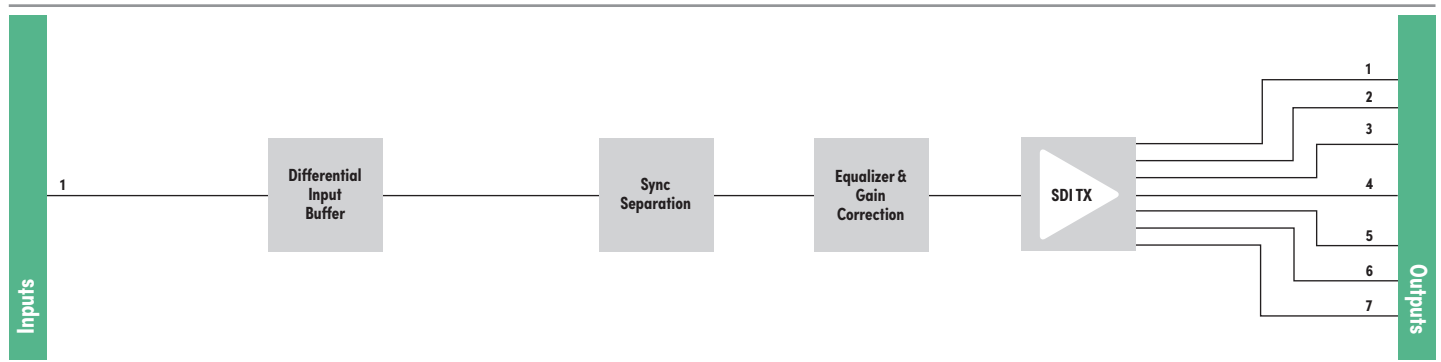
Analog video DA. Loop-through input, 14 outputs.



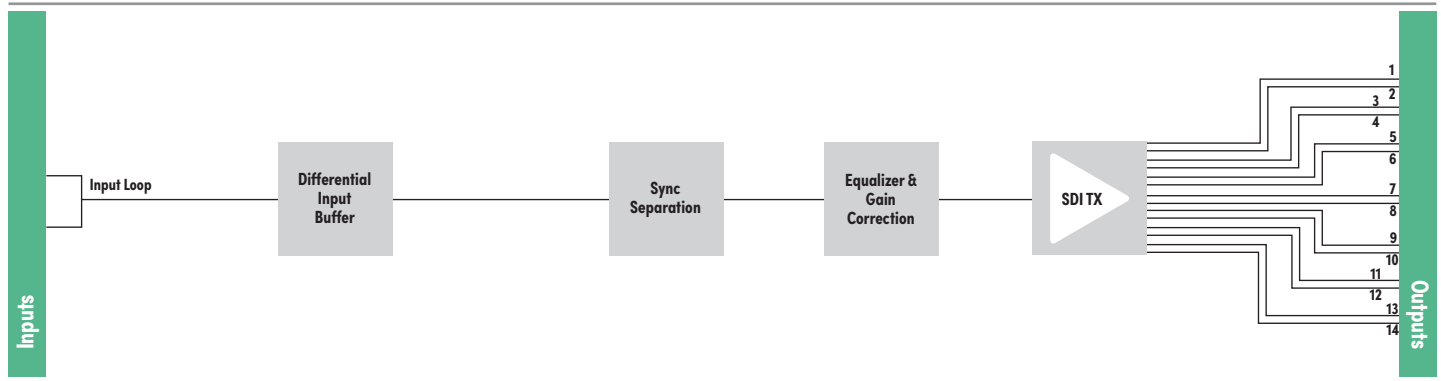
For more details on enclosure types please refer to the IQ Modular Enclosures datasheet.



Block Diagram for IQVDA0201-1A



Block Diagram for IQVDA0301-1A



Block Diagram for IQVDA0206-2A

This product may be protected by one or more patents. For further information, please visit: www.grassvalley.com/patents

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