

# IQVDA02/03

## Analog Video Distribution Amplifier

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

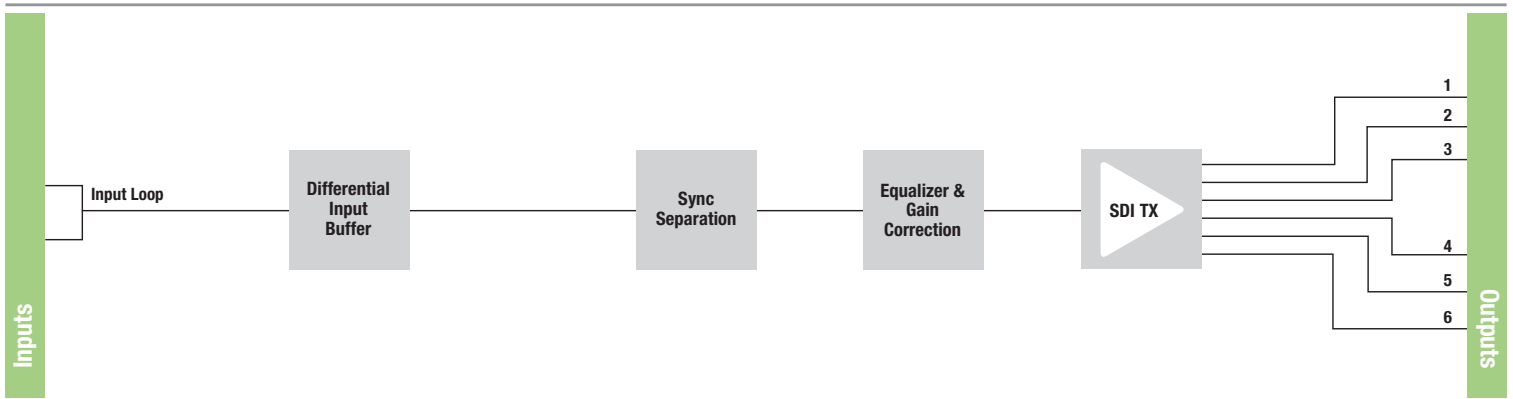
The IQVDA02/03 from Grass Valley provides up to 14 equalized analog video outputs.

### Why should you choose this module?

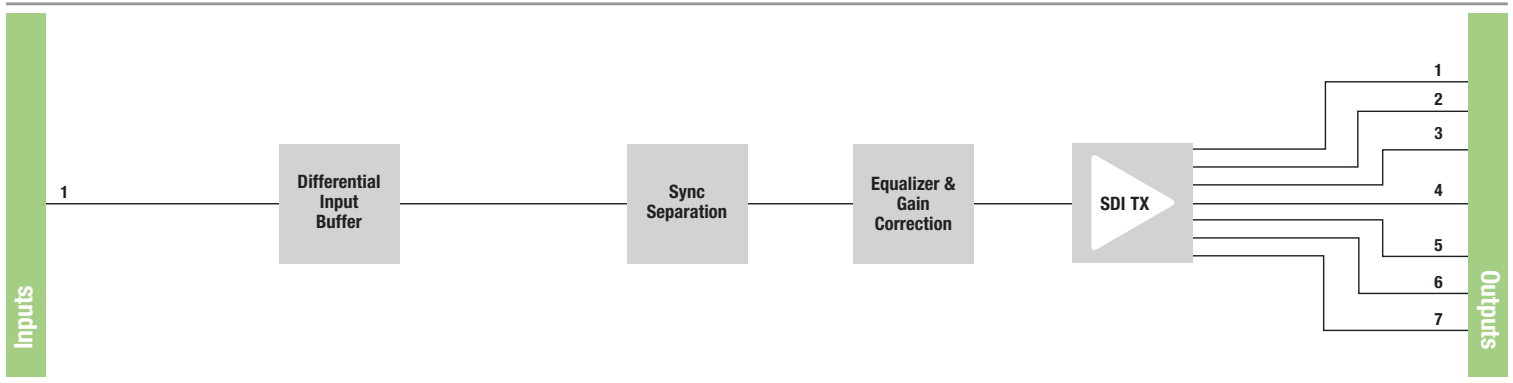
- Ideal budget distribution amplifier for analog video applications
- Maintenance of video quality ensured by the 35 MHz frequency response
- Equalizer ensures the flat response ( $\pm 0.1$  dB) to 15 MHz necessary for quality distribution

### KEY FEATURES

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



Block Diagram for IQVDA0201-1A



Block Diagram for IQVDA0301-1A

**SPECIFICATIONS**

**Inputs and Outputs**

**Signal Input**

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

**Signal Outputs**

Video: Up to 14 unbalanced outputs

**Card Edge and RollCall 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: 75Ω ±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 ±1% as supplied

**Power Consumption**

Module power consumption:

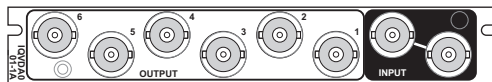
3W Max (A Frames)

2 PR (B Frames)

**ORDERING**

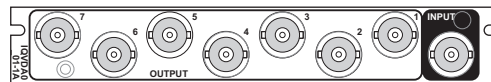
**IQVDA0201-1A**

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



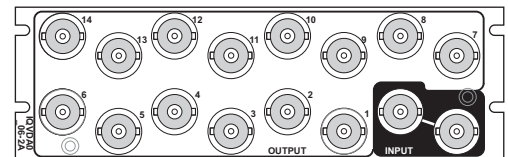
**IQVDA0301-1A**

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.