

IQVDA02/03

Analog Video Distribution Amplifier

The IQVDA02/03 provide up to 14 equalized analog video outputs.

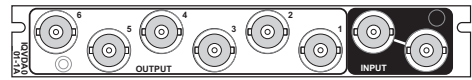
Features

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

Why should you choose this module?

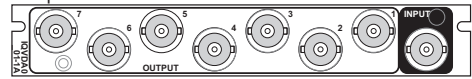
- Ideal budget distribution amplifier for analog video applications
- Maintenance of video quality ensured by the 35 MHz frequency response
- Equalizer ensures the flat response (± 0.1 dB) to 15 MHz necessary for quality distribution

Order codes



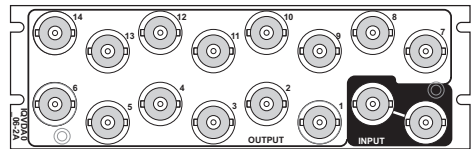
IQVDA0201-1A

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



IQVDA0301-1A

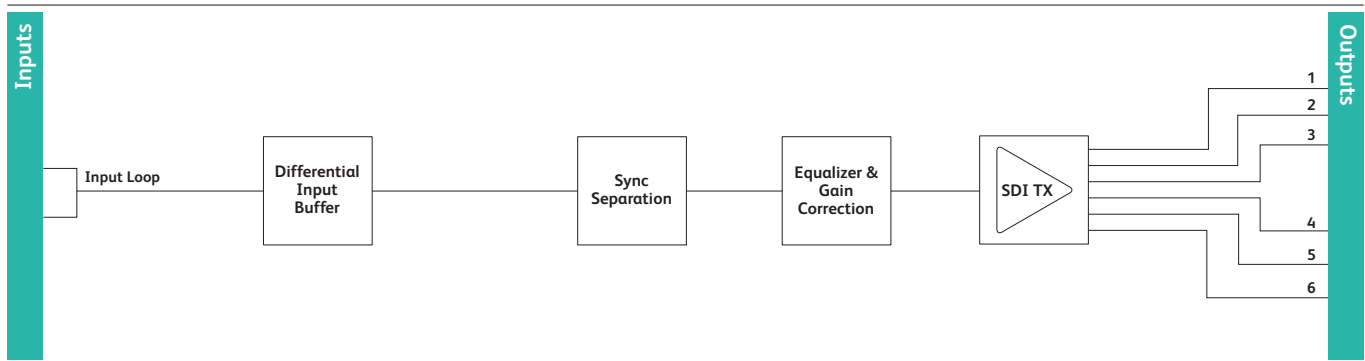
Analog Video DA. Terminating input, 7 outputs.



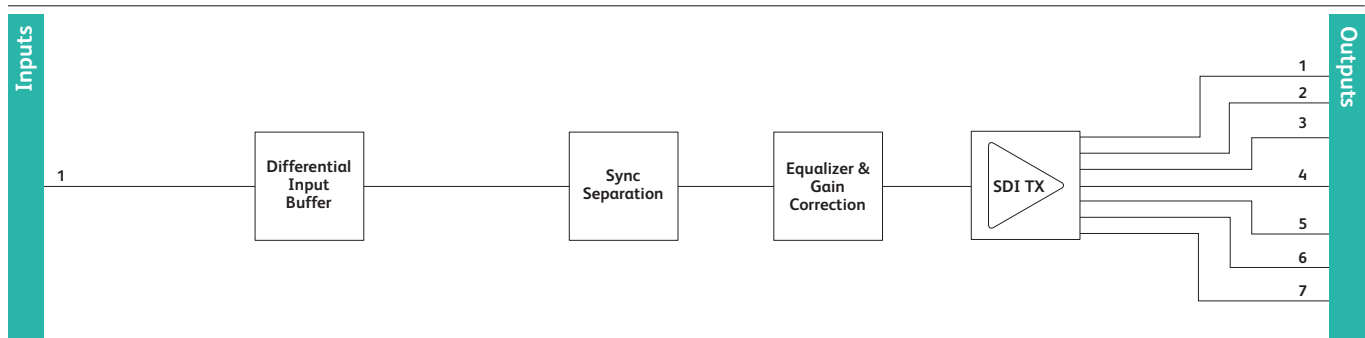
IQVDA0206-2A

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

For more details on enclosure types please refer to Frames and Hardware section.



Block Diagram for IQVDA0201-1A



Block Diagram for IQVDA0301-1A

Technical Specification

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 100 m of RG59 to 15 MHz ± 0.1 dB

Indicators

Power OK
Sync detect OK (Green)

Specifications

Frequency response 0-100 m 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)
50 Hz tilt K50 Hz 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 ohms $\pm 1\%$
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 3 W Max (A Frames)
2 PR (B Frames)