

IQSDA12
SD-SDI Distribution Amplifier



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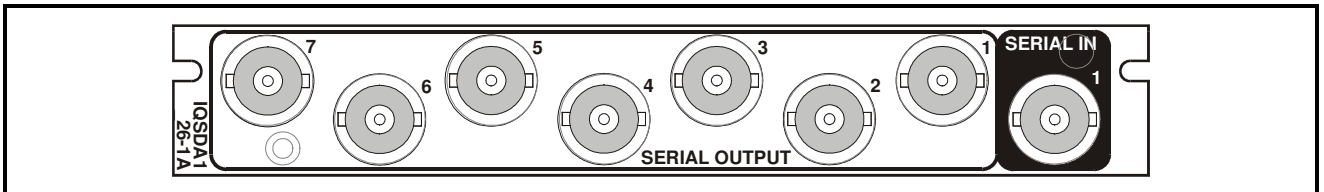
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Module Description

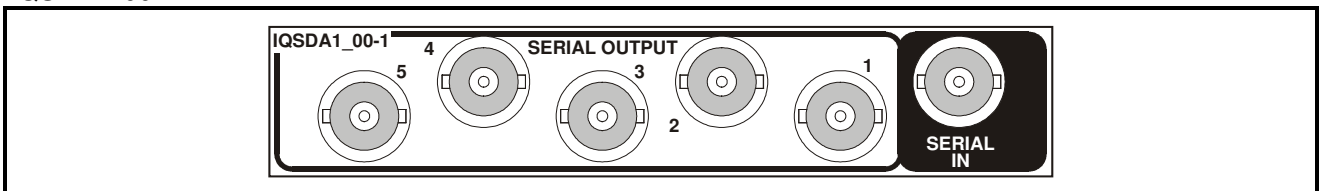
The IQSDA12 provides seven equalized outputs operating with 270 Mbit/s SDI signals in single-width form to enable up to sixteen channels to be fitted into a 3RU enclosure.

Rear Panel View

IQSDA1201-1A



IQSDA1200-1



This manual covers the following products:

IQSDA1201-1A SDI Equalizing Distribution Amplifier. 1 SDI input, 7 SDI outputs.

IQSDA1200-1 SDI Equalizing Distribution Amplifier. 1 SDI input, 5 SDI outputs.

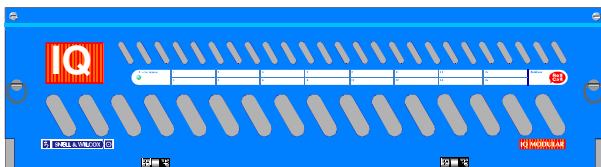
Product Comparison

Product	SDI Inputs	SDI Outputs	Width & Style
IQSDA1201-1A	1	7	Single A
IQSDA1200-1	1	5	Single O

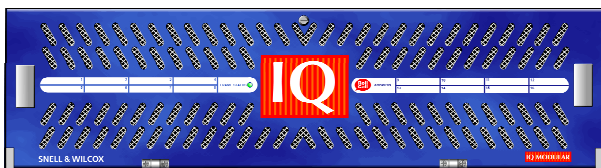
Note that there are two styles of rear panels available. They are not interchangeable between the two styles of enclosures. However, the cards may be fitted into any style of enclosure.

‘A’ Style Enclosure

Rear panels **with** the suffix A may only be fitted into the ‘A’ style enclosure shown below.



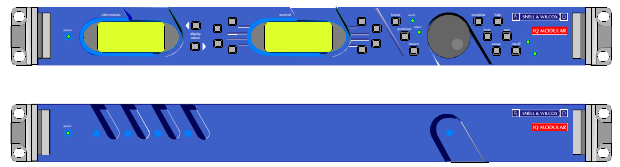
(Enclosure order codes IQH3A-E-0, IQH3A-E-P, IQH3A-0-0, IQH3A-0-P)



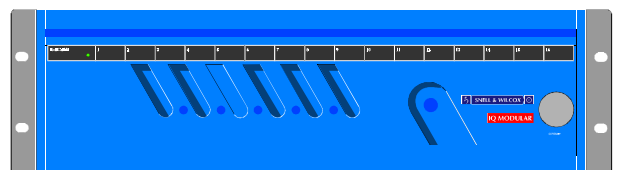
(Enclosure order codes IQH3A-S-0, IQH3A-S-P)

‘O’ Style Enclosures

Rear panels **without** the suffix A may only be fitted into the ‘O’ style enclosures shown below.



(Enclosure order codes IQH1S-RC-0, IQH1S-RC-AP, IQH1U-RC-0, IQH1U-RC-AP, Kudos Plus Products)

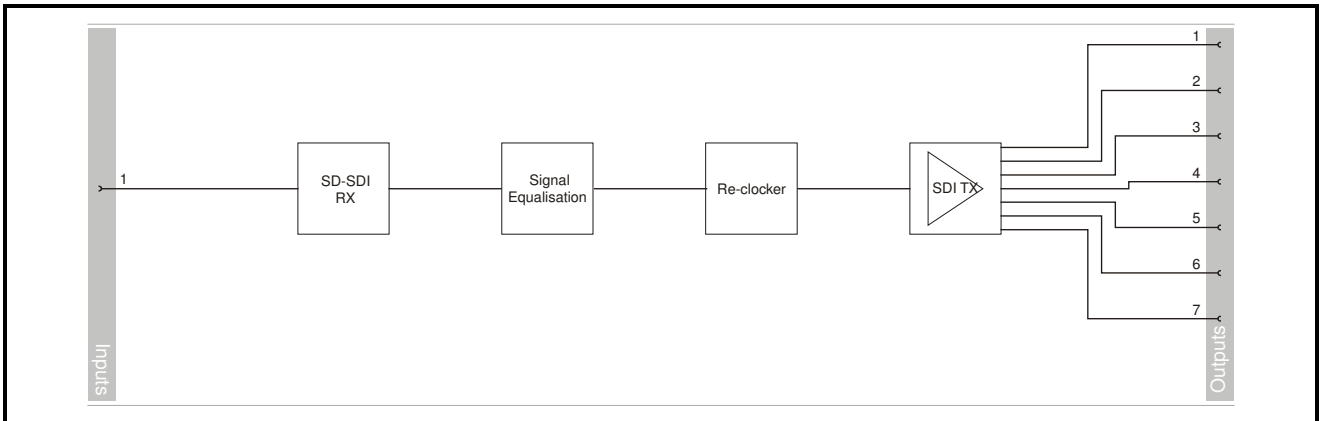


(Enclosure order codes IQH3N-0, IQH3N-P)



(Enclosure order codes IQH3U-RC-0, IQH3U-RC-P)

Block Diagram



Features

- Performs equalization of serial 4:2:2 signals
- Provides 7 buffered outputs for SDI signals
- Input equalizer allows for use as a line receiver/distribution amplifier

Technical Profile

Signal Inputs

Serial1 x 270 Mbit/s SDI
 Standards.....SMPTE 259M-C-1997
 Connector / Format.....BNC/ 75ohm panel jack on
 standard S&W connector panel

Signal Outputs

Serial Digital Up to 7 x SDI
 Standards..... SMPTE 259M-C-1997
 Connector / Format..... BNC/ 75ohm panel jack on
 standard S&W connector panel

Indicators

StatusOK (Green)
 Warning (Yellow)
 Error (Red)

Specifications

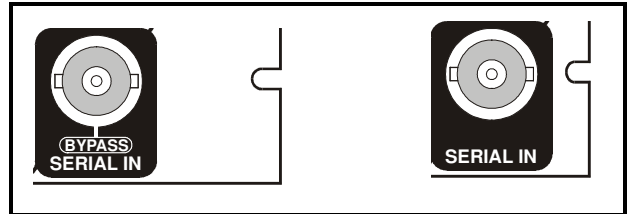
Input Return Lossbetter than 15 dB to 270 MHz
 Maximum Input cable Length
 220 m Output Return Loss
 better than 15 dB to 270 MHz
 Insertion Delay.....20 ns nominal
 SDI Output Level800 mV nominal
 Power Consumption
 Module Power Consumption
 1.7 W

INPUT CONNECTIONS

Serial Inputs

(All versions)

The serial digital input to the unit is made via this BNC connector which terminates in 75 Ohms.

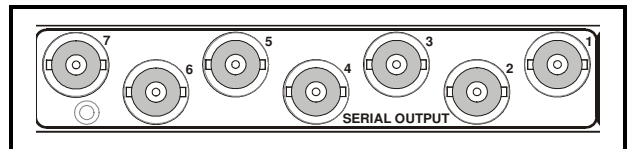


OUTPUTS

Serial Digital Video Outputs

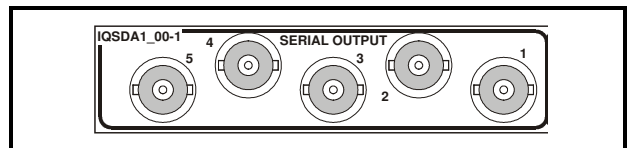
IQSDA1201-1A

These are the seven Serial Digital outputs of the unit via BNC connectors for 75 Ohms.



IQSDA1200-1

These are the five Serial Digital outputs of the unit via BNC connectors for 75 Ohms.



CARD EDGE INDICATORS

D1 OK (Green)

This LED will be illuminated when any digital signal is present.

D2 Warning (Amber)

This LED will be illuminated if the unit is not receiving an input signal.

D3 Error (Red)

This LED will be illuminated if an internal operating error occurs.

