SDA-1102 Dual 1×4 SDI/ASI Distribution Amplifier with Equalizing

The SDA-1102 is a dual 1×4 SDI/ASI distribution amplifier (DA) with equalizing. It is used in i-MOD platform. The module provides a dual-channel DA with 4 SDI/ASI outputs for 1 input on each channel. Each first output supports power-off protection. Thus signal can be output continuously when module is removed or power is off. Equalizing is up to 492 ft (150 m).

The SDA-1102 can be controlled locally by means of an intuitive card-edge interface or remotely using i-MOD platform control software IM-MASTER.
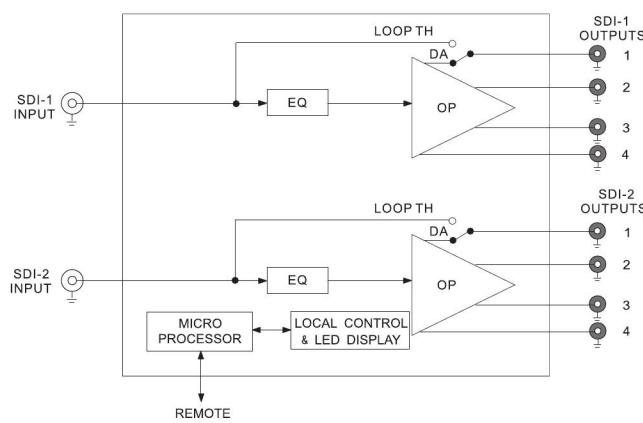
FEATURES

- Dual 1×4 distribution mode
- Supports DVB-ASI, SMPTE 259M A , B , C , D (143, 177, 270, 360 Mbps) signal and digital signal from 10 to 540 Mbps
- Equalizing up to 492 ft (150 m)
- Each first output is power-off protected
- Non-volatile memory
- Hot-swappable
- IM-MASTER control supported

BLOCK DIAGRAM

BACK MODULES
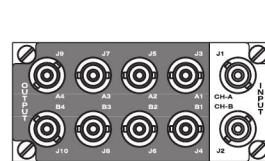
1RU
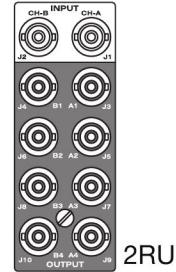
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SPECIFICATIONS

Specifications are subject to change without notice.

INPUT
Signal Format…………………..SMPTE 259M, DVB-ASI
Connector………………………BNC (×2)
Impedance………………………75 Ω
Return Loss……………………..>15 dB @ 270 MHz
EQ Distance……………………<492 ft (150 m),
                                        Belden1694A cable or equivalent

OUTPUT
Signal Format…………………..SMPTE 259M, DVB-ASI
Connector………………………BNC (×4×2)
Impedance ………………………75 Ω
Return Loss……………………..>18 dB @ 270 MHz
                                        >15 dB @ 360 MHz
Amplitude………………………..800 mVp-p±10%

PERFORMANCE
Jitter………………………………<0.2 UI
Overshoot………………………..<10% of amplitude
Rise/Fall Time…………………..400 ~ 1500 ps,
                                        20% ~ 80% of amplitude
Rise/Fall Time Diff………………<500 ps

ELECTRICAL
Power……………………………..4 W

ENVIRONMENTAL
Operating Temperature………..32° ~ 104° F (0° ~ 40° C)
Relative Humidity……………….10% ~ 90%