SDA-1103

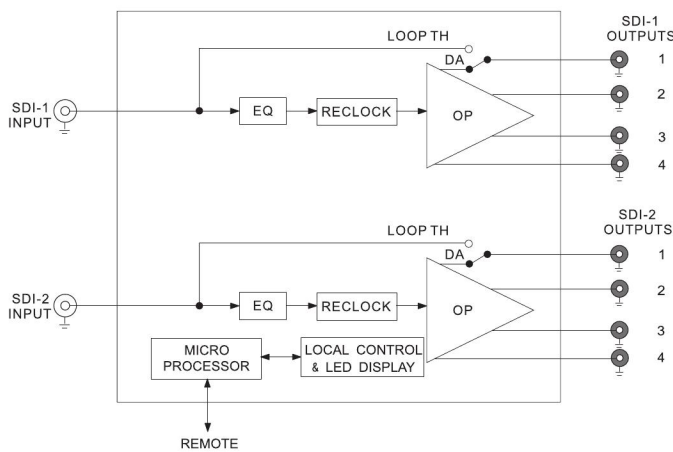## Dual 1×4 SDI/ASI Distribution Amplifier with Reclocking and Equalizing

The SDA-1103 is a dual 1×4 SDI/ASI distribution amplifier (DA) with equalizing and reclocking. 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). Reclocking is available.

The SDA-1103 can be controlled locally by means of an intuitive card-edge interface or remotely using i-MOD platform control software IM-MASTER.
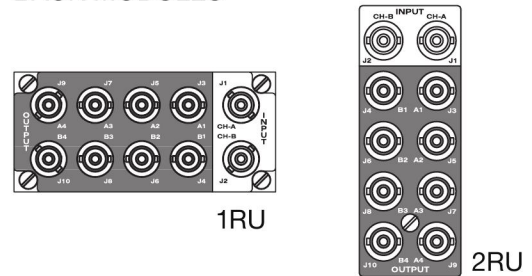
FEATURES

- 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)
- Auto reclocking available
- Each first output is power-off protected
- Non-volatile memory
- Hot-swappable
- IM-MASTER control supported

BLOCK DIAGRAM

BACK MODULES

1RU

2RU

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..................................5 W

ENVIRONMENTAL

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