

SMA-1103

1x4 SDI Distribution Amplifier with Analog Video Monitoring

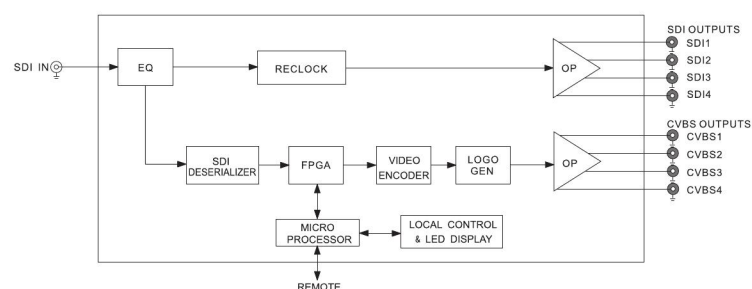
The SMA-1103 is a 1x4 SDI distribution amplifier (DA) with analog video monitoring. It is used in i-MOD platform. The module provides a single-channel DA with 4 SDI outputs for 1 input. Another four analog video outputs are provided for monitoring. OSD (On-Screen Display) operation and logo insertion is available for analog video output. Equalizing is up to 1000 ft (300 m) and reclocking is available.

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

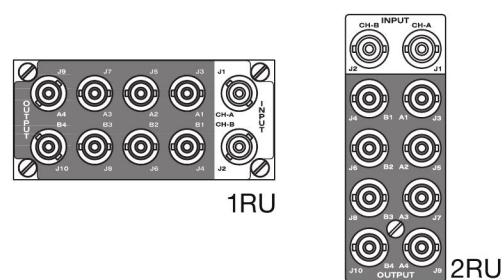
FEATURES

- 1 SDI input, 4 SDI outputs and 4 analog video outputs
- Equalizing up to 1000 ft (300 m)
- Auto reclocking available
- OSD (On-Screen Display) operation and logo insertion available for analog video output
- Non-volatile memory
- Hot-swappable
- IM-MASTER control supported

BLOCK DIAGRAM



BACK MODULES



SPECIFICATIONS

Specifications are subject to change without notice.

DIGITAL VIDEO INPUT

Signal Format.....SMPTE 259M, 270 Mbps, 4:2:2, 10 bits, 525/625 component
 Connector.....BNC (x1)
 Impedance.....75 Ω
 Return Loss.....>15 dB @ 270 MHz
 Cable EQ.....<1000 ft (300 m)
 Belden 1694A cable or equivalent

DIGITAL VIDEO OUTPUT

Signal Format.....SMPTE 259M, 270Mbps, 4:2:2, 10 bits
 Connector.....BNC (x4)
 Impedance75 Ω
 Return Loss.....>15 dB @ 270 MHz
 Amplitude.....800 mVp-p ±10%
 Jitter.....<0.2 UI
 Rise/Fall Time.....400 ~ 1500 ps,
 20% ~ 80% of amplitude

Overshoot.....<10% of amplitude

ANALOG VIDEO OUTPUT

Signal Format.....CVBS
 Standards.....NTSC, PAL
 Quantization.....8 bits output
 Connector.....BNC (x4)
 Impedance.....75 Ω
 Amplitude.....1.0 Vp-p ±3%
 Chr/Lum Delay Diff.....<5 ns
 S/N Ratio.....>70 dB @ 6 MHz

ELECTRICAL

Power.....2 W

ENVIRONMENTAL

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