

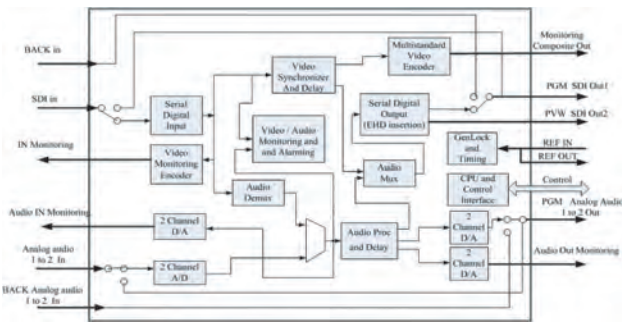
Description:

The DL240SDI solid state delay line provides up to 120 seconds delay for audio and video signal to give the operator complete control over the program content being broadcast to air.

DL240SDI2 offers main and standby SDI video signal inputs, each input supports 2 channels balanced analog audio inputs, and 2 channels embedded audio inputs. Main SDI video signal input is used as delay adjustment, and works under normal circumstance; Standby SDI video signal input provide the output signal with more reliable signal guarantee. DL240SDI2 has ample interfaces for monitoring, provide all-round analog audio monitoring interface before or after delay.

The signal monitoring and alarming features provide input signal error detection. Video input, audio input, EDH, freeze frame, black field, audio too high and too low errors are all monitored by the DL240SDI 2.

The outputs of DL240SDI are all protected by relay bypass.

**Features:**

- ▶ 120 seconds maximum delay
- ▶ Main and Standby SDI video input
- ▶ 2 channels balanced analog audio inputs for Main and Standby SDI video input
- ▶ SDI video 2 channel balanced analog audio PGM output
- ▶ Analog audio monitoring output before or after delay.
- ▶ Support 2 channel embedded audio
- ▶ Frame synchronizer
- ▶ Test signal generator
- ▶ EDH insertion
- ▶ Fully functional audio processing amplifier
- ▶ Input signal error monitoring and alarming
- ▶ Relay bypass protected outputs
- ▶ Redundant power supply



Specifications: Specifications are subject to change without notice.

Digital Video Specifications

Standards	525, 625, 259M-C; 270 Mb/s
SDI Input (BNC)	75 ohms, Auto EQ to 300 m
SDI Output (BNC)	75 ohms, 800mV ±10%
Return Loss	>18 dB to 270 MHz
Output DC Level	0.0 V ±0.5 V
Output Overshoot	<10% of amplitude (all outputs terminated)
Output Jitter	<500ps

Genlock Specifications

Genlock Ref	(BNC Loop) 75 ohms, 1 Vp-p
Return Loss	>40 dB to 5.8 MHz
Horizontal phase range	1 line, with resolution of 37 ns
Vertical phase range	1 frame, with resolution of 1 line
Sub-carrier wave phase range	3600, pace distance 1.40

Analog Audio Specifications**Ordering Information:**

DL240-SDI2 SDI video and audio delay line .

Connection	3-pin connector
Number of Inputs	2 Stereo Channels (Balanced)
Input Impedance	>36 kohms
Input Operating Levels	+24, +20, +16, +12dBu, 36kohms
Maximum Input Level	+24 dBu
A/D Resolution	24-bit
Number of Outputs	6 audio channel (2 channel PGM, 2 channel IN MON, 2 channel OUT MON, balance output)
D/A Resolution	24-bit
Output Operating Levels	+24, +20, +16, +12dBu, 36kohms
Output Operating Levels	+24, +20, +16, +12dBu, 36kohms
Maximum Output Level	+24 dBu (66ohms)
Sampling Rate	48 kHz

Embedded Audio

Number of audio channel 2 channel of 1 audio group