

The HVS-5103 is an HD/SD-SDI 2x1 protection changeover which is specially designed to reside in i-MOD frame. REF input signal ensures seamless clean changeover between Primary and Secondary signals.

The HVS-5103 HD/SD-SDI 2x1 protection changeover accepts one primary HD/SD-SDI input (IN1) or one backup HD/SD-SDI input (IN2) and provides one HD/SD-SDI output (PGM1) and one digital signal monitoring output (PGM2). PGM1 support BY-PASS function for continuous signal output. PGM2 can connect to multiviewer for signal monitoring.

The HVS-5103 supports real-time detection for input video and audio signals' status. In automatic mode, if the module has detected a bad Primary it switches to the Backup. The module then switches back to the Primary input whenever the Primary is detected as good. In manual mode, if the module has detected a bad Primary, alarm system will be activated, the module can be switched to the Backup manually.

Signal presence status and manual parameters adjustment are provided via LED indicators, selector and paddle switches. 1RU and 2RU back modules are provided used for HVS-5103 module

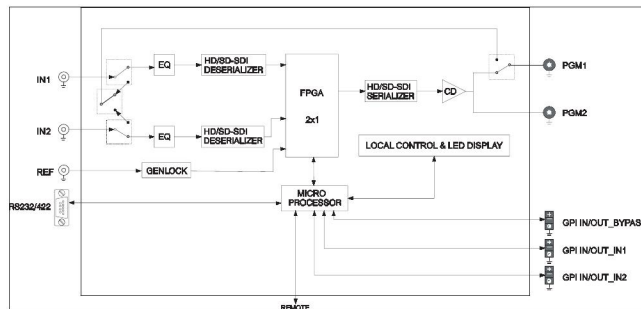
when installed in 1RU and 2RU i-MOD frames. HVS-5103 module supports GPI trigger and HVS-RM-I control panel.

The HVS-5103 protection changeover supports i-MOD platform network monitoring system. Parameters manual adjustment, module operating status and signal status indication are provided via SQ-Master control software.

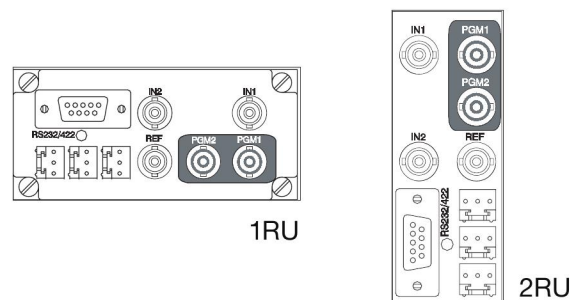
FEATURES

- Seamless switching between Primary and Backup HD/SD-SDI
- Main and backup signal supports BY-PASS
- Automatic/manual mode
- Alarm via RS-232/422, alarm conditions can be pre-configured
- GPI trigger
- REF vertical blanking interval switching
- Remote control via control panel
- Non-volatile memory
- Hot-swappable
- Computer control supported

BLOCK DIAGRAM



BACK MODULES



SPECIFICATIONS

Specifications are subject to change without notice.

INPUT

Signal Format.....	1.485Gbps,1.485/1.001Gbps, 270Mbps
Signal Standard.....	SMPTE 259, SMPTE 272, SMPTE 292
Connector.....	BNC (x2)
Impedance.....	.75 ohms
Return Loss.....	SD > 18 dB @ 270 MHz HD > 15 dB @ 1.485 GHz
Cable EQ.....	SD < 984 ft (300 m); HD < 328 ft (100 m) (Belden 1694A or equivalent cables)

OUTPUT

Signal Format.....	1.485Gbps,1.485/1.001Gbps, 270Mbps
Signal Standard.....	SMPTE 259, SMPTE 272, SMPTE 292
Connector.....	BNC (x2)
Impedance.....	.75 ohms
Return Loss.....	SD > 18 dB @ 270 MHz; HD > 15 dB @ 1.485 GHz
Amplitude.....	.800 mVp-p ±10%
Rise/Fall Time.....	SD:400~1500ps; HD: <270 ps (20% ~ 80% of amplitude)
Overshoot.....	<10% amplitude

Jitter.....	SD < 0.12 UI(10 Hz) HD < 0.2 UI(100 KHz) HD < 1.0 UI(10 Hz)
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REF VIDEO INPUT

Signal Format.....	BB/HD tri-level Sync
Connector.....	BNC(x1)

ENVIRONMENTAL

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