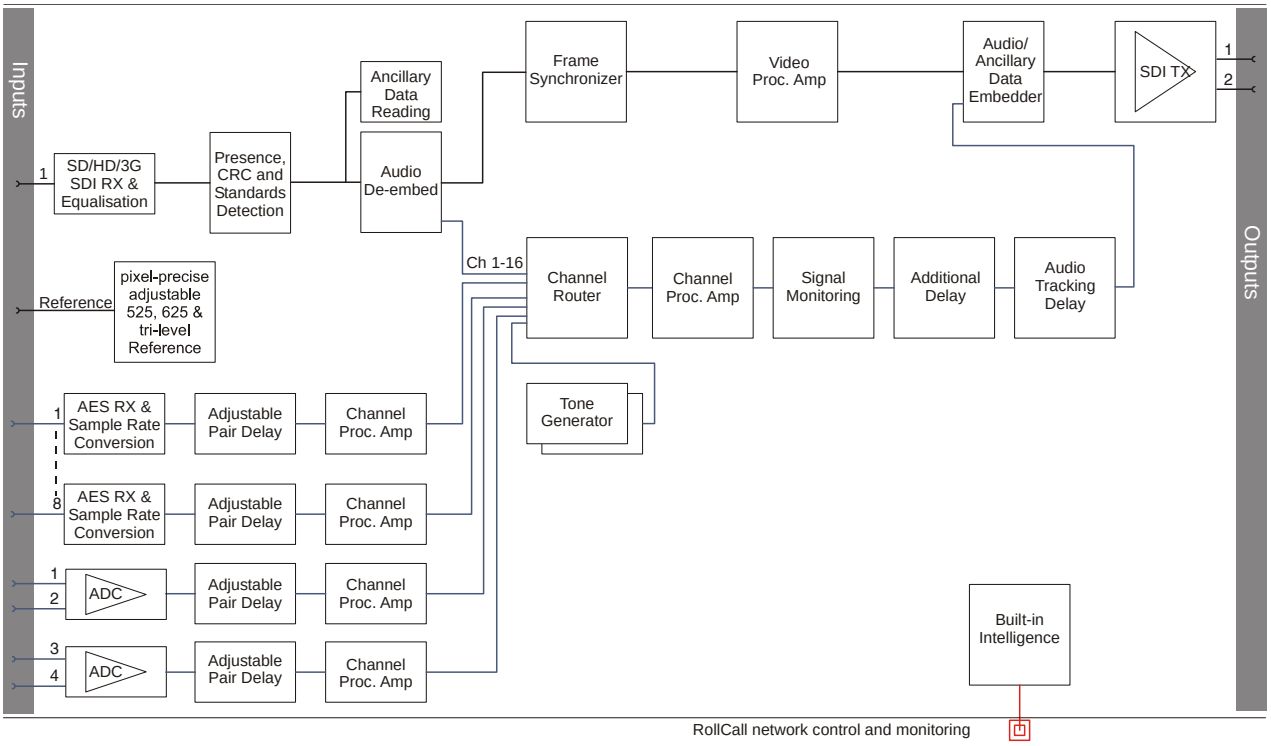
IQMUX33 Provisional Data

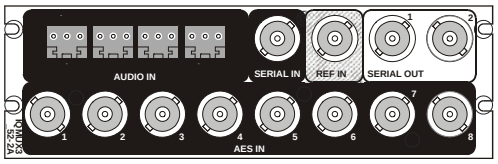
3G/HD/SD-SDI Multiplexer and Frame Synchronizer with AES/EBU and Analog Audio Inputs

The IQMUX33 provides 16 channel AES and analog audio multiplexing for 3Gbps SDI, HD-SDI or SD-SDI signals. Ideal for lines in applications features include a frame synchronizer capable of locking to a SD bi-level or HD-tri-level reference and up to 8 AES and 4 analog audio inputs for discreet audio handling. Audio processing features include gain, invert, delay and channel level routing.



Block diagram for IQMUX3352-2A shown

Order codes for IQH3A/1A enclosures



IQMUX3352-2A HD/SD-SDI 16 channel AES and analog audio multiplexer with synchronizer. 1 SDI input, 1 reference input, 8 unbalanced AES and 4 analog audio inputs, 2 SDI outputs

IQMUX3352-2A3 3G/HD/SD-SDI 16 channel AES and analog audio multiplexer with synchronizer. 1 SDI input, 1 reference input, 8 unbalanced AES and 4 analog audio inputs, 2 SDI outputs

IQMUX33-3G Upgrade for IQMUX33 HD/SD-SDI 8 channel unbalanced AES audio multiplexer with synchronizer to operate with 3Gbps signals

IQMUX3347-1A HD/SD-SDI 8 channel unbalanced AES audio multiplexer with synchronizer. 1 SDI input, 1 reference input, 4 unbalanced AES audio inputs, 2 SDI outputs

IQMUX3351-1A HD/SD-SDI 4 channel analog audio multiplexer with synchronizer. 1 SDI input, 1 reference input, 4 analog audio inputs, 2 SDI outputs

IQMUX3351-1A3 3G/HD/SD-SDI 4 channel analog audio multiplexer with synchronizer. 1 SDI input, 1 reference input, 4 analog audio inputs, 2 SDI outputs

For more details on enclosure types please refer to the Frames/Enclosures section

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3G/HD/SD-SDI Multiplexer and Frame Synchronizer with AES/EBU and Analog Audio Inputs

Does this module suit your application?

- Frame synchronizer with HD Tri-sync / SD Bi-Level Reference Input
- Standards supported:
  - 3G-SDI to SMPTE 424M/425M level A & B compatible
  - HD-SDI to SMPTE292M/274M/296M
  - SD-SDI to SMPTE259M-C
- Multiplex analog and unbalanced AES audio onto 3G/HD/SD-SDI video streams with channel-level control (24-bit HD, 20-bit SD embedded resolution)
- Standards supported:
  - AES3
  - Dolby E/AC3
  - HD embedded audio to SMPTE299M
  - SD embedded audio to SMPTE272M
- Capable of processing up to 8 input AES audio channels to 24-bits at rates of 32 kHz, 44.1 kHz, 48 kHz and 96 kHz both synchronous and asynchronous to the video stream
- Processing for 16 channels of embedded audio and SMPTE 2020 Dolby metadata present on the incoming SDI stream with channel level control
- Embedded audio handling – 3G/HD 24 bit to SMPTE 299M, SD 20 bit to SMPTE 272M-A – all synchronous to 48 kHz
- Able to pass all ancillary data without corruption inc. VANC metadata
- Independent horizontal and vertical ancillary data blanking
- Video delay and proc-amp – Y gain, C gain, Video Gain, Color phase, black level offset (luma lift) control
- Input SDI, CRC, EDH and ANC data checking, reporting and insertion
- Input Loss Detection – Clean Cut to Freeze, Black or Pattern
- In-built test pattern generator
- Detects and supports Dolby E and PCM audio present in the same group with auto SRC bypass on Dolby E/non-PCM detection
- Downmixing of embedded or external 5.1 surround sound signals for monitoring or additional stereo sources
- Internal tone generator
- Audio proc-amp with gain, invert and delay (inc Dolby E delay), and pair selectable mono-mixdown mode
- Audio delay channels for 8 pairs including selectable fixed delay plus video and external tracking delays with per pair delays on AES and analog inputs
- Any group of embedded audio may be passed unchanged
- 16 x user memories per channel
- Rollcall control and monitoring compatible
- RollTrack triggers available for detected module states
- 2 GPI/O ports for general purpose control and reporting

Why should I choose this module?

- Frame synchronization and flexible embedding provides the ideal solution applications where separate video and audio signals need to be combined for embedded workflows
- Comprehensive audio processing functions allow complete control over external and embedded audio feeds
- Full RollCall and SNMP compatibility allows easy integration with Snell & Wilcox, or third party, network management systems providing an all-inclusive monitoring and control solution