

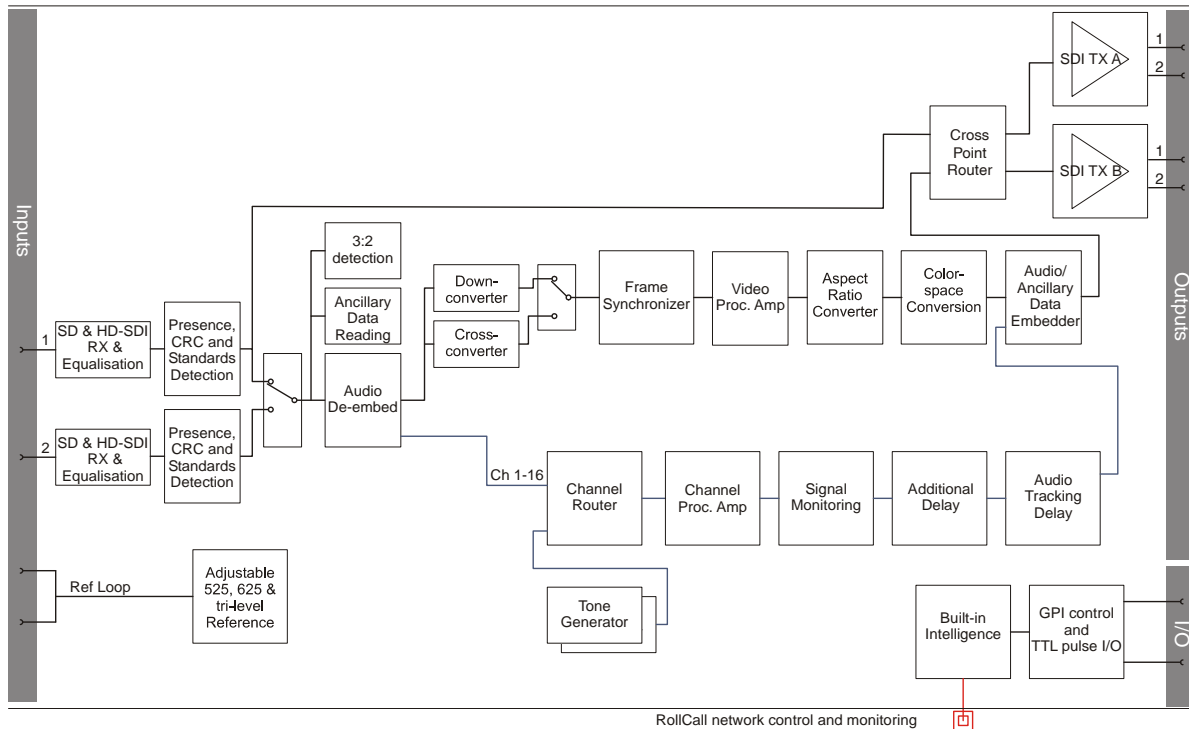
# IQDCC00

Provisional Data



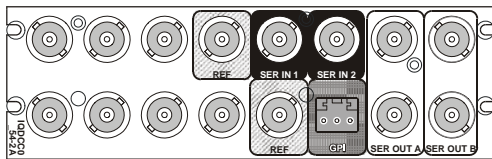
## 3G/HD/SD-SDI Down and Cross Converter with Synchronizer

The IQDCC00 provides down and cross conversion for 3Gbps SDI, and HD-SDI digital video signals. Using high quality motion adaptive de-interlacing and flexible scaling technology the IQDCC00 is a broadcast quality conversion module featuring frame synchronization, aspect ratio conversion, along with advanced audio and metadata handling to provide a highly integrated space efficient package.



Block diagram for IQDCC0054-2A shown

### Order codes for IQH3A/1A enclosures



IQDCC0054-2A HD/SD-SDI Down and cross converter. 1 SDI input, 4 selectable main or bypassed SDI outputs, 2 GPI/Os

IQDCC0054-2A3 3G/HD/SD-SDI Down and cross converter. 1 SDI input, 4 selectable main or bypassed SDI outputs, 2 GPI/Os

IQDCC00-3G Upgrade for IQDCC00 HD/SD-SDI Down and cross converter to operate with 3Gbps signals

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

## 3G/HD/SD-SDI Down and Cross Converter with Synchronizer

### Does this module suit your application?

- High quality selectable down and cross conversion for 3G/HD-SDI video inputs
- Frame synchronizer with HD Tri-sync / SD Bi-Level Reference Input
- Standards supported:
  - 3G-SDI to SMPTE 424M/425M
  - HD-SDI to SMPTE292M/274M/296M
  - SD-SDI to SMPTE259M-C
- User variable static aspect ratio conversion with 10 user definable presets
- Aspect ratio control using ETSI WSS and AFD Video Index signaling (RP186), inc SMPTE 2016
- Closed caption passing or processing for CEA608/708 and ETS300 Teletext captions
- VITC or RP188 timecode can be decoded and then re-encoded in the output format
- Independent horizontal and vertical ancillary data blanking
- Intelligent conversion of film cadences and color space conversion to ITU 601 and 709
- Video delay and proc-amp including horizontal and vertical picture enhancement
- Input SDI, CRC, and ANC data checking and reporting (and EDH insertion on output)
- Input Loss Detection – Clean Cut to Freeze, Black or Pattern
- In-built test pattern generator
- 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
- Standards supported:
  - Dolby E/AC3

- HD embedded audio to SMPTE299M
- SD embedded audio to SMPTE272M
- Detects and supports Dolby E and PCM audio present in the same group
- 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
- 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?

- High quality down conversion and frame synchronization allows incoming HD feeds to be incorporated into existing SD workflows
- Flexible down and cross conversion allows for multi-format operations such as in OB vans
- Comprehensive audio processing functions allow complete control over embedded audio feeds for applications where channel routing or mixing is required
- 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