

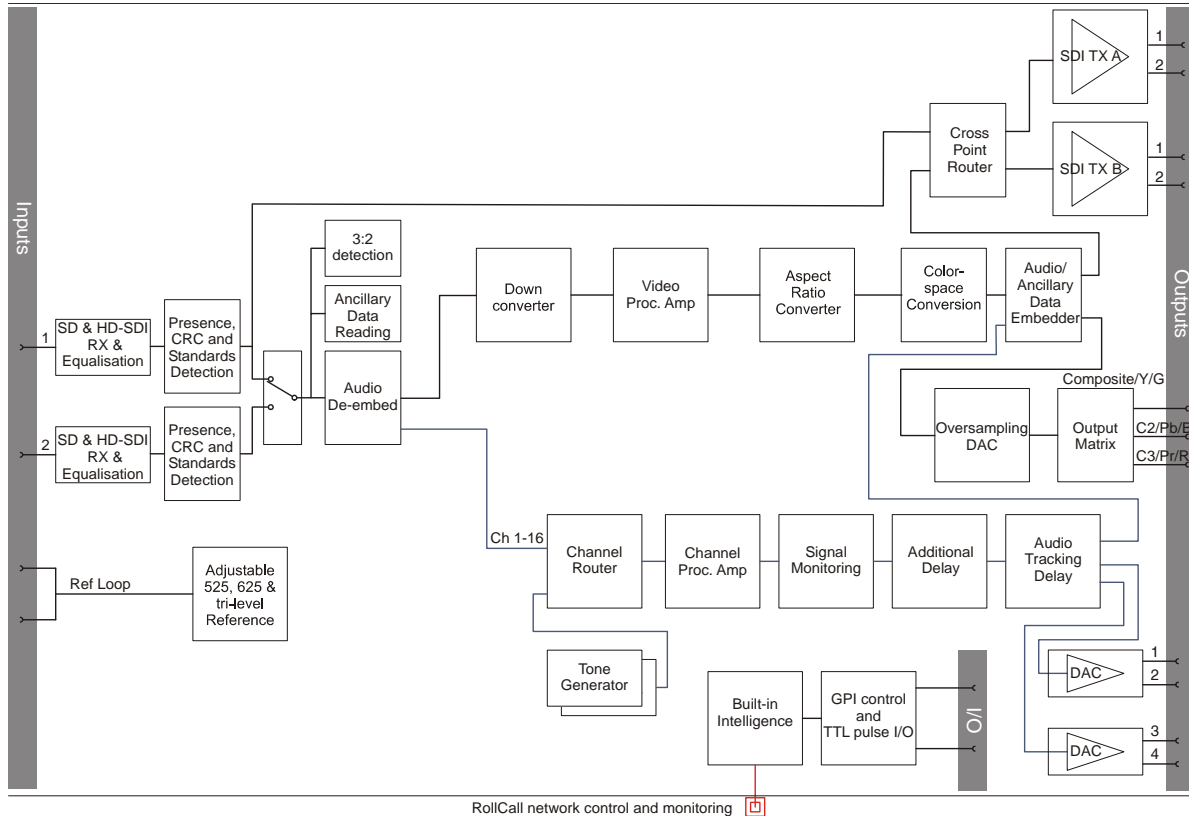
IQDNC00

Provisional Data

SNELL & WILCOX

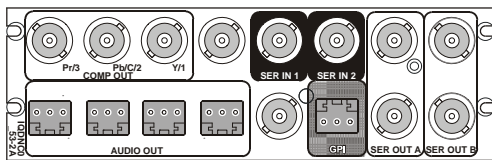
3G/HD/SD-SDI Down Converter with analog video and audio outputs

The IQDNC00 provides down conversion for 3Gbps SDI, and HD-SDI digital video signals. Using high quality motion adaptive de-interlacing and flexible scaling technology the IQDNC00 is a broadcast quality conversion module featuring aspect ratio conversion and advanced audio and metadata handling along with analog monitoring outputs for video and audio signals.



Block diagram for IQDNC0053-2A shown

Order codes for IQH3A/1A enclosures



IQDNC0053-2A HD-SDI Down converter with analog outputs. 1 HD-SDI input, 4 selectable main or bypassed SDI outputs, 1 component or 3 composite PAL/NTSC outputs, analog audio outputs, 2 GPI/O

IQDNC0053-2A3 3G/HD-SDI Down converter with analog outputs. 1 3G/HD-SDI input, 4 selectable main or bypassed SDI outputs, 1 component or 3 composite PAL/NTSC outputs, analog audio outputs, 2 GPI/O

IQDNC00-3G Upgrade for IQDNC00 HD-SDI Down converter with analog outputs to operate with 3Gbps signals

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

3G/HD/SD-SDI Down Converter with analog video and audio outputs

Does this module suit your application?

- High quality down conversion for 3G/HD-SDI video inputs with additional Component, YC or composite outputs available
- 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
- Video delay and proc-amp including horizontal and vertical picture enhancement
- Independent horizontal and vertical ancillary data blanking
- 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
- Dolby metadata, as defined in SMPTE 2020 is extracted and re-embedded following conversion
- Intelligent conversion of film cadences and color space conversion to ITU 601 and 709
- 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
- De-multiplex existing embedded audio channels and output them as analog audio with 24-bit resolution
- 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?

- Advanced down conversion technology provides sharp high quality SD outputs suitable for broadcast applications
- Analog video and audio outputs make this module ideal for local monitoring applications
- Comprehensive audio processing functions allow complete control over 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