

# Quad-port HD-SDI/ASI with Genlock for PCIe

DekTec DTA-2154



## KEY FEATURES

- Each port can be configured as input or output, and as DVB-ASI or SD/HD-SDI
- Hardware separates HANC, VANC, video with simultaneous access to full frames
- All 16 audio channels can be read/written
- On-board 1/4 or 1/16 video scaling
- AMD SDI Link for low-latency direct DMA transfers to/from a graphics card
- Bi-level and tri-level genlock input port, or digital genlock through port 1
- Two RS-422 ports for connection to a deck
- PCI Express x4 gen3 for high performance
- Matrix API organizes HD-SDI inputs in a matrix of frame buffers, for random access to frames with time of entry as index
- Free drivers and SDK (DTAPI, Matrix API) for 32 and 64-bit Windows and Linux

## APPLICATIONS

- General purpose processing of a mix of HD-SDI and/or ASI signals
- Live production mixer and effect generators
- SDI monitoring, recording and/or play-out
- Video encoding or transcoding

- Bi-level and tri-level genlock input
- SDI link for DMA to/from graphics card
- Random access to audio, video, ANC

## KEY ATTRIBUTES

| Parameter           | Value  |
|---------------------|--|
| Physical layer      | DVB-ASI: EN50083-9<br>SD-SDI: SMPTE 259M<br>HD-SDI: SMPTE 292M |
| Connectors          | 5x 75-Ω 1.0/2.3  |
| Return loss         | ≥12dB @ 0 .. 1.5GHz  |
| Matrix API features | ≥15dB @ 0 .. 1.5GHz  |
| PCI Express         | PCIe3 x4; Low profile  |
| OS                  | XP/2k3/Vista/2k8/Win7/Win8<br>Linux 2.6                        |

## SUPPORTED FORMATS

| Formats  |
|--|
| 525i59.94, 625i50  |
| 720p23.98, 720p24, 720p25, 720p29.97,<br>720p30, 720p50, 720p59.94, 720p60         |
| 1080p23.98, 1080p24, 1080p25, 1080p29.97,<br>1080p30, 1080i50, 1080i59.94, 1080i60 |

## ORDERING INFORMATION

| Parameter    | Value  |
|--------------|--|
| DTA-2154     | 4x HD-SDI/ASI ports with genlock for PCI Express |
| DTA-2154-SDP | DTA-2154 with StreamXpress®, DtTV and DtGrabber+ |