

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

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

### 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

### KEY ATTRIBUTES

Parameter	Value
Physical layer	DVB-ASI: EN50083-9 SD-SDI: SMPTE 259M HD-SDI: SMPTE 292M
Connectors	5x 75-Ω 1.0/2.3
Return loss	≥12dB @ 0 .. 1.5GHz
Matrix API features	8/10/16-bit conversion Audio/video/ANC extraction Direct DMA to or from GPU Hardware scaling by 1/4 or 1/16 Multiple stream synchronisation
PCI Express	PCIe3 x4; Low profile
OS	XP/2k3/Vista/2k8/Win7/Win8 Linux 2.6

### SUPPORTED FORMATS

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

### ORDERING INFORMATION

Type	Description
DTA-2154	4x HD-SDI/ASI ports with genlock for PCI Express
DTA-2154-SDP	DTA-2154 with <i>StreamXpress</i> <sup>®</sup> , <i>DtTV</i> and <i>DtGrabber+</i>