

Quad 3G-SDI/ASI Ports with Genlock for PCIe

DekTec DTA-2174



KEY FEATURES

- Each SDI port is fully software configurable:
 - Input or output
 - 3G-SDI, HD-SDI, SD-SDI or DVB-ASI
- Bi-level and tri-level genlock input port, or digital genlock through port 1
- Two RS-422 ports for connection to a deck
- Hardware provides efficient and convenient access to SDI frames:
 - Separation of audio (all channels) and ancillary data
 - On-board 1/4 or 1/16 video scaling for generating previews
 - Sophisticated DMA engine
 - Conversion from and to 16-bit data
- Matrix 2.0 framework takes care of all the plumbing for creating robust real-time SDI processing applications.
- Free drivers and SDK (DTAPI, Matrix 2.0) for 32 and 64-bit Windows and Linux

APPLICATIONS

- General purpose processing of a mix of 3G-SDI, HD-SDI and/or ASI signals
- Live production mixer and effect generators
- SDI monitoring, recording and/or play-out
- Video encoding or transcoding

SUPPORTED FORMATS

Formats
525i59.94, 625i50
720p23.98, 720p24, 720p25, 720p29.97, 720p30, 720p50, 720p59.94, 720p60
720p23.98, 720p24, 720p25, 720p29.97, 720p30, 720p50, 720p59.94, 720p60
1080p50, 1080p59.94, 1080p60
2160p50, 2160p59.94, 2160p60



- Real-time processing of 3G-SDI signals
- Random access to audio, video, ANC
- Bi-level and tri-level genlock input

KEY ATTRIBUTES

Parameter	Value
Physical layer	DVB-ASI: EN50083-9 SD-SDI: SMPTE 259M HD-SDI: SMPTE 292M 3G-SDI: SMPTE 424M
4k multi-link	SMPTE 425-5 quad 3G-link. Includes support for Annex B
Connectors	5x 75-Ω 1.0/2.3
Return loss	≥12dB @ 0.. 3GHz
Matrix API features	8/10/16-bit conversion Audio/video/ANC extraction Hardware scaling by 1/4 or 1/16 Multiple stream synchronization
PCI Express	PCIe3 x4; Low profile
OS	Vista/2k8/Win7/Win8 Linux 2.6, 3.x

ORDERING INFORMATION

Parameter	Value
DTA-2174	4x 3G-SDI/ASI ports with genlock for PCI Express
DTA-2174-SDP	DTA-2174 with StreamXpress®, DtTV and DtGrabber+
DTA-2174-SY-SDP	DTA-2174-SDP plus SdEye waveform monitor
DTA-2174-SY-SXP	DTA-2174-SY-SDP plus StreamXpert TS analyzer

Sencore is the preferred distributor of DekTec in North America.