

4x 3G-SDI/ASI Input/Output, Genlock Input, 4K Support

- Real-time processing of 3G-SDI/4K signals
- Supports 3G-SDI level A and level B
- Optimized for DekTec Matrix API

FEATURES

- Four ports fully configurable from software:
 - Input or output
 - 3G-SDI, HD-SDI, SD-SDI or DVB-ASI
 - 3G-SDI ports can be configured to operate in level A or level B mode
- Bi-level and tri-level genlock input port, or digital genlock through port 1
- Two RS-422 ports for connection to a deck
- On-board 1/4 and 1/16 hardware video scaler for reducing PCIe bus bandwidth
- Sophisticated DMA engine
- DekTec Matrix API framework takes care of all the plumbing for creating robust real-time SDI processing applications.
- Free drivers and SDK (DTAPI with DekTec Matrix API included) for 32 and 64-bit Windows and Linux



APPLICATIONS

- Generation, reception and processing of uncompressed UHD signals
- 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

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, with support for Annex B |
| Connectors | 5x 75-Ω 1.0/2.3 DIN |
| Return loss | ≥12dB @ 0 to 3GHz |
| DekTec Matrix API | 8/10/16-bit conversion Audio/video/ANC extraction Hardware scaling: 1/4 or 1/16 |
| PCI Express | PCIe3 x4 low profile |
| OS | XP, Vista, 2k8, Win7, Win8 Linux ≥2.6.18, 3.x |

SUPPORTED FORMATS

| Formats |
|--------------------------------------|
| 525i, 625i |
| 720p23.98/24/25/29.97/30/50/59.94/60 |
| 1080p(sf)23.98/24/25/29.97/30 |
| 1080i50/59.94/60 |
| 1080p50/59.94/60 |
| 2160p50/59.94/60 |

ORDERING INFORMATION

| Type | Description |
|-----------------|---|
| DTA-2174 | 4x 3G-SDI/ASI input/output, genlock input, 4K support |
| DTA-2174-SY-SXP | DTA-2174 with <i>StreamXpert</i> [®] , <i>SdEye</i> and <i>StreamXpress</i> [®] |