

Quad 3G-SDI/ASI Ports (1x12G) with Genlock for PCIe



DTA-2174B



- Four SDI/ASI interfaces for PC applications
- 4K UHD over 12G-SDI or quad-link 3G-SDI
- API to access video, audio and ANC data



KEY FEATURES

- Four ports fully configurable from software:
 - Input or output
 - ASI or SDI
 - SDI ports: 3G, HD or SD
 - 3G-SDI ports can be configured to operate in level A or level B mode
- New Port 1 supports 12G-SDI 4Kp50/60
- Fanless design for improved reliability
- Low latency DMA to and from software
- DekTec Matrix API© 2.0 takes care of all the plumbing required for creating robust real-time SDI processing applications
- Free drivers and SDK (includes Matrix API) for Windows and Linux

APPLICATIONS

- Software-based 4K decoder/encoder with 12G-SDI or quad-link 3G-SDI interfacing
- Live production mixer, effect generator
- SDI/ASI monitoring, recorder, play-out

SDI FORMATS

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

KEY ATTRIBUTES

Parameter	Value	
Connectors	5x 75-Ω micro BNC	
PCI Express	PCIe3 x4 low profile	
Air flow	≥2m/s (400LFM)	
DekTec Matrix API© 2.0	Pixel format conversion Audio/video extraction HANC/VANC access Scaling by 1/4 or 1/16 All 16 audio channels	
Physical layer	12G-SDI	SMPTE ST-2082
	4K quad link	SMPTE 425-5
	6G-SDI	SMPTE ST-2081
	3G-SDI	SMPTE 424M
	HD-SDI	SMPTE 292M
	SD-SDI	SMPTE 259M
	DVB-ASI	EN50083-9
OS	Windows	7/8/10, Server 12/16/19
	Linux	≥2.6.32, 3.x, 4.x, 5.x

PORTS

Port	SDI
Port 1	SD, HD, 3G level A/B, 6G, 12G
Port 2,3,4	SD, HD, 3G level A/B
Port 5	Bi/tri-level genlock input

ORDERING INFORMATION

Type	Description
DTA-2174B	4x 3G-SDI/ASI (1x12G), genlock
DTA-2174B-SXP	DTA-2174B with StreamXpert®, and StreamXpress®

Sencore is the preferred distributor of DekTec in North America.