

Twelve HD-SDI/ASI Ports with Genlock for PCIe

DekTec DTA-2179



FEATURES

- Twelve flexible ports, each independently configurable from software:
 - Input or output
 - HD-SDI, SD-SDI or ASI
 - Up to eight ports 3G-SDI
- Combine HD-SDI and ASI ports in any mix
- Graphics-card class PCI Express gen3 x16 interface avoids bus-bandwidth limitations
- Bi-level and tri-level genlock input port, or digital genlock through port 1
- DekTec Matrix API 2.0 takes care of all the low-level plumbing and lets you create real-time applications processing many SDI signals with ease, entirely in software
- Free drivers and SDK (DTAPI with DekTec Matrix API 2.0) for Windows and Linux

APPLICATIONS

- Applications that require many SDI inputs and/or outputs, e.g. live production mixers, ASI/SDI monitoring and image processing
- Processing up to two 4Kp50/60 signals



- High-density HD-SDI/ASI connectivity
- PCIe gen3 x 16 for ample bandwidth
- Optimized for DekTec Matrix API

KEY ATTRIBUTES

Parameter	Value
Ports	12 x 3G-SDI*/ASI ports
	1 x genlock port
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	13 x 75-Ω DIN 1.0/2.3
Return Loss	≥12dB @ 0 to 3GHz
DekTec Matrix API 2.0	8/10/16-bit conversion Audio/video/ANC extraction Hardware scaling by 1/4 or 1/16 Multiple stream synchronization
PCI Express	PCIe3 x 16
OS	Windows Vista, 2k8, 7, 8/8.1, 10 Linux ≥2.6.18, 3.x, 4.x

* Maximally 8 x 3G-SDI simultaneously.

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-2179	Twelve HD-SDI/ASI ports with genlock for PCI Express
DTA-2179-SLP	DTA-2179 with StreamXpress® and StreamXpert® Lite
DTA-2179-SY-SXP	DTA-2179 with StreamXpress®, StreamXpert® and SdEye