

Octal 12G-SDI/ASI Ports with Genlock for PCIe

- ❑ Eight SDI/ASI interfaces for PC applications
- ❑ Each port can be configured independently
- ❑ Dual 4K over 12G-SDI or quad-link

FEATURES

- Eight ports fully configurable from software:
 - Input or output
 - ASI or SDI
 - SDI: SD, HD, 3G level A/B, 6G, 12G.
- Sufficient bus bandwidth (PCIe gen3 x8) for reception and/or transmission of two full-frame uncompressed 4K channels (2x 12G-SDI or 2x quad-link 3G-SDI).
- 8x 12G-SDI input with scaling to 3G-SDI, e.g. for monitoring purposes.
- Genlock input accepting bi-/tri-level sync.
- Low latency DMA to and from software.
- Free drivers and SDK, including DekTec Matrix API® 2.0, for Windows and Linux



APPLICATIONS

- Multi-channel software-based compliance recorders, decoders, encoders, monitors, multiplexers, multiviewers, receivers, stream processors, transcoders, play-out, ...

KEY ATTRIBUTES

Parameter		Value
Connectors		9x 75-Ω micro BNC
PCI Express		PCIe3 x8 low profile
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 Quad link ↔ 4K conversion
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
PCI Express		PCIe3 x8 low profile

DekTec advises using the DTA-2178 in a PCIe x16 slot.

PORTS

Port	SDI
Port 1 to 8	SD, HD, 3G level A/B, 6G, 12G
Port 9	Bi/tri-level genlock input

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

ORDERING INFORMATION

Type	Description
DTA-2178	8x 12G-SDI/ASI, genlock
DTA-2178-LP	DTA-2178 with low-profile PCIe bracket mounted
DTA-2178-SXP	DTA-2178 with StreamXpert® , and StreamXpress®

DTA-2178-ASI is described in a separate leaflet.