# 10G Network Card Optimized for SMPTE 2110

- Outperforms the competition in efficiency
- Simplifies SMPTE 2110 application creation
- Advanced timestamping and traffic shaping

## FEATURES

- Efficient 10G network card for Linux and Windows, utilizing hardware acceleration to minimize video-over-IP overhead.
- Fully compliant with SMPTE 2110 and SMPTE 2022-5/6 protocols.
- Supports SMPTE 2022 TS over-IP streams encapsulation/decapsulation with IP FEC.
- Six optimized hardware pipes (3x Rx, 3x Tx), designed for superior performance.
- Precise timestamping and traffic shaping with local time-of-day counter syncing to PTP.
- SFP+ slot for 10G and 1G interfaces, catering to both electrical and optical connections.
- Advanced hardware task offloading for efficient general network traffic handling.
- Seamless integration with FFmpeg.
- Intuitive AV FIFO API, purpose-built to streamline and simplify IP streaming tasks.

## APPLICATIONS

Perfect for applications previously using SDI, that are now modernized for SMPTE 2110:

- Software encoders, decoders, transcoders.
- Monitoring and multiviewers.
- Compliance recording

The DTA-2110 supports the transition from SDI to IP infrastructure, ensuring enhanced efficiency and performance.

## KEY ATTRIBUTES

| Parameter | | Value |
|---|---|---|
| Ports | | 1x 10G/1G SFP+ |
| IP protocol version | | IPv4, IPv6 |
| SMPTE 2022 | TS-over-IP | ST 2022-1/2 |
| | SDI-over-IP | ST 2022-5/6 |
| SMPTE 2110 | Timing | ST 2110-10 |
| | Video | ST 2110-20/21 |
| | Audio | ST 2110-30/31 |
| PTP | | ST 2059-1/2 |
| SFP+ slot | | SFF-8431* |
| PCI Express | | Low-profile PCIe3 x4 |
| OS | Windows | 10, 11; Server 19, 22 |
| | Linux | 4.x, 5.x |

*Direct attach cables are not supported

## ORDERING INFORMATION

| Type | Description |
|---|---|
| DTA-2110-SLP | 10GbE NIC optimized for SMPTE 2110 with ***StreamXpert Lite*** and ***StreamXpress*** |
| DTA-2110-SXP | 10GbE NIC optimized for SMPTE 2110 with ***StreamXpert*** and ***StreamXpress*** |
| DTA-2110-OEM | Please contact DekTec for OEM applications of the DTA-2110 |

Please refer to **www.dektec.com** for the latest pricing and a list of distributors and resellers.