

SOLVING COMPLEX VIDEO CHALLENGES

AI video processing 5G 8K

PTP ST2110 DisplayPort

IP contribution Virtualization

NMOS HDR 4K HDMI 2.0

Remote production Cloud

Optical fiber PCIe SRT

12G SDI

ABOUT DELTACAST

Born from the TV broadcast industry, DELTACAST is a leader in the design, development and manufacturing of live video transport and processing solutions for OEMs and developers. Our solutions deliver the highest quality and the lowest latency to serve the most demanding applications in TV broadcasting, ProAV industry, medtech, aerospace and many other markets.



The quality management system developed by DELTACAST fulfills the requirements of the ISO 9001:2015 standard

DELTACAST

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Interfacing is our work



Premium support included



100% under your control



Quality excellence



LIVE VIDEO TRANSPORT & PROCESSING SOLUTIONS

DELTACAST

INTERFACING IS OUR WORK

SDI

- ▶ More than 15 different models
- ▶ From 1 to 12 configurable in/out
- ▶ From SD to 8K
- ▶ SD/HD/3G/6G/12G-SDI
- ▶ Multi-link 4K and 8K transport in quadrants and in 2SI mode
- ▶ BNC, DIN or HD-BNC connectors
- ▶ HDR formats support
- ▶ Input synchronization, output genlocking
- ▶ Onboard LTC reference input, or through LTC optional module
- ▶ Automatic bypass relays on some models



IP

- ▶ 2 x 10GbE ports via SFP+
- ▶ ST2110 and ST2022-5/6 stream capture and playout
- ▶ ST2022-7 - Seamless Protection Switching
- ▶ Mezzanine compression for 4K support
- ▶ Unicast and Multicast IGMP
- ▶ PTP support



HDMI™ / DISPLAYPORT™ / DVI

- ▶ HDMI™ 2.0 600 MHz TMDS clock
- ▶ HDMI video formats up to 4K60
- ▶ Audio capture
- ▶ High frame rate HD (up to 120Hz)
- ▶ HDR formats support
- ▶ 2 inputs
- ▶ Low-profile form factor
- ▶ DisplayPort and DVI support



MIXED VIDEO INTERFACES

- ▶ Mixed SDI and HDMI UHD capture and playout card
- ▶ Compact versatile dual channel 12G SDI or 8 channel 3G SDI / DVB ASI card



100% UNDER YOUR CONTROL

VIDEOMASTER SDK

- ▶ Supports all DELTACAST video cards
- ▶ Unified framework with dedicated features for SDI, IP, HDMI, DVI, DISPLAYPORT and ASI
- ▶ Ultimate Low Latency with sub-frame access
- ▶ C/C++ API
- ▶ DirectShow filters
- ▶ Drivers for Windows and Linux PC computers, MacOS, and ARM platforms
- ▶ NVIDIA GPUDirect RDMA support



FREE SOFTWARE APPLICATIONS AND DOCUMENTATION

- ▶ Comprehensive documentation
- ▶ Free applications : dCARE, dREC, dMOSAIC, dSCOPE, E-EDID Editor



TAILORED TO YOUR NEEDS

CUSTOM DESIGN

Electronics, software & mechanics
Flexible OEM building blocks
Integration into a plethora of video applications
Custom firmware for any of our boards



PREMIUM SUPPORT INCLUDED

First-class technical support by email, or even by phone in case of critical needs

INNOVATIVE SOLUTIONS FOR THE NEW USE CASES

REAL-TIME PROCESSING

NEW
12G-SDI passive bypass relays

- ▶ 4K Keyer
- ▶ 12G-SDI passive bypass to preserve video signal in all conditions
- ▶ FastStart® output from power-on and in case of system failure for optimal robustness



SMOOTH TRANSITION TO IP

Expertise in IP and ready-to-use modules
ST2110, DPDK kernel bypass, PTP, NMOS



- ▶ ST 2110 software ingest and playout on standard NICs
- ▶ Part of the unified VideoMaster SDK
- ▶ Up to 4K and more without compromise
- ▶ Support for ST 2110-20 (uncompressed video), -22 (compressed streams -JPEG XS), -30 (audio), -40 (ancillary data)
- ▶ Redundancy (ST 2022-7)
- ▶ Advanced performances with NVIDIA® ConnectX and DPDK kernel bypass
- ▶ Virtualization ready

ULTIMATE LOW LATENCY

NEW

- ▶ The shortest way to real-time
- ▶ Software defined ultra-low latency
- ▶ Sub-frame video-in to video-out

FLEX



FLEX brings flexibility, high density and scalability in live production environments. FLEX unleashes the limits of what you can do on a single low-profile PCIe slot.

- ▶ Connect up to 32 I/O on a single PCIe slot
- ▶ External I/O modules for SDI, HDMI 2.0 and DisplayPort 1.2
- ▶ Frame accurate synchronization
- ▶ Up to 32x HD – 8x 4K
- ▶ Rack-mount design