

ADVANTECH

Enabling an Intelligent Planet

Latest IP Live Video Streaming Production Platform

Advantech

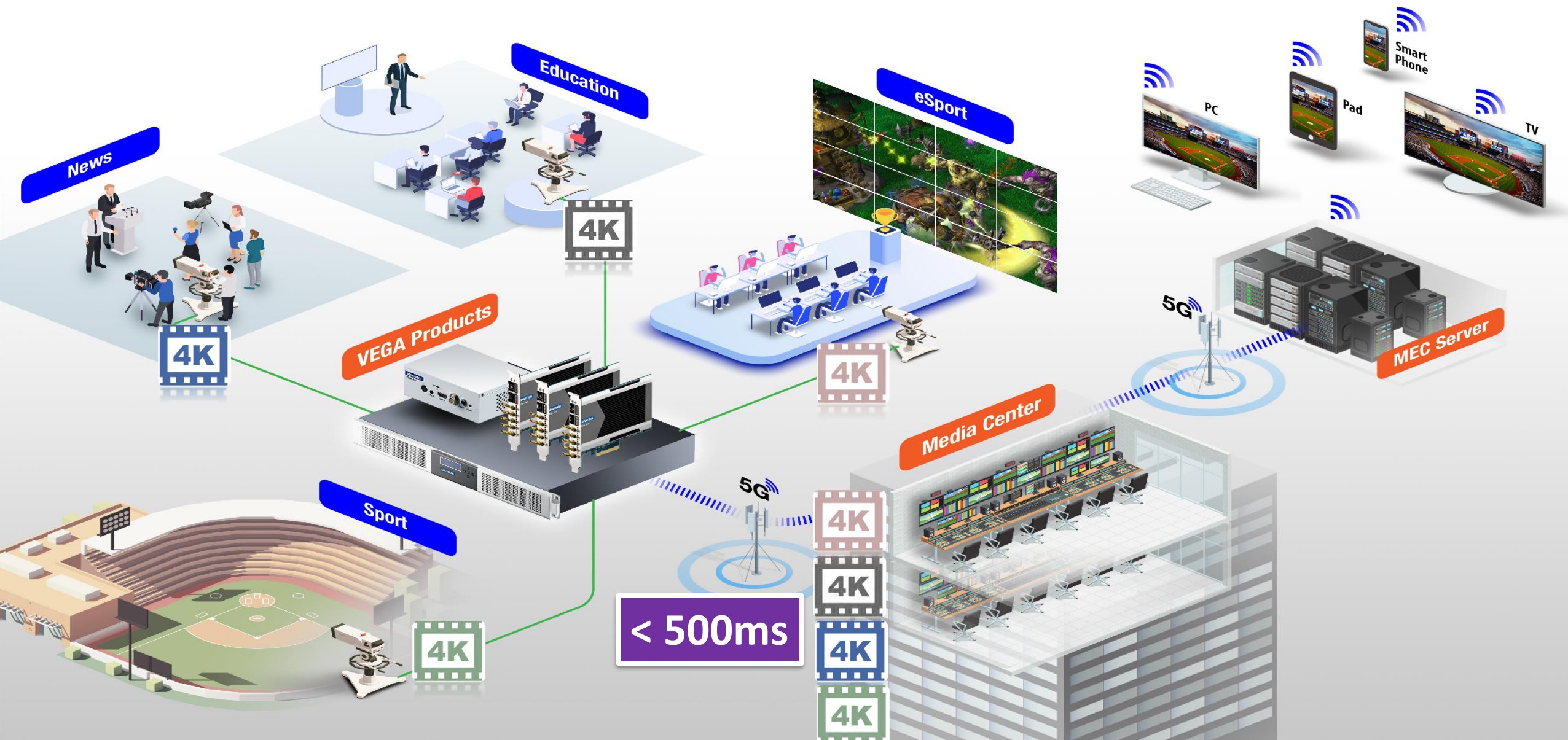
Industrial Cloud and Video Group

Thomas Lien



Next Generational Professional Live Video Streaming

5G Open A Whole New Landscape

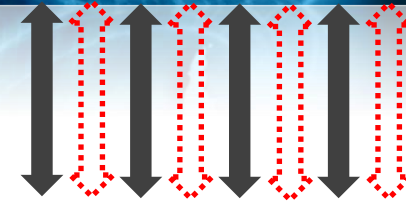


Empower Intelligent Live Streaming Production

Fixed Video Codec & Optimized Video Path Provided by Intel X^e Engine

Excellent Customer Experience

- High Quality Video
- Reliable Video Streaming
- Intelligent Video Processing



Audio-Video synchronization Technique



Multi-Channel UHD Video Capture & Control

Image
Control



High Speed Video Processing & diverse codec by Intel X^e Graphic Engine



Next Live Video - UHD 360 Free Viewpoint



4K
ULTRA HD

8K
ULTRA HD

H.264
MPEG-4/AVC

HEVC
H.265 - HIGH EFFICIENCY VIDEO CODING

HLS

SRT ALLIANCE
SECURE RELIABLE TRANSPORT

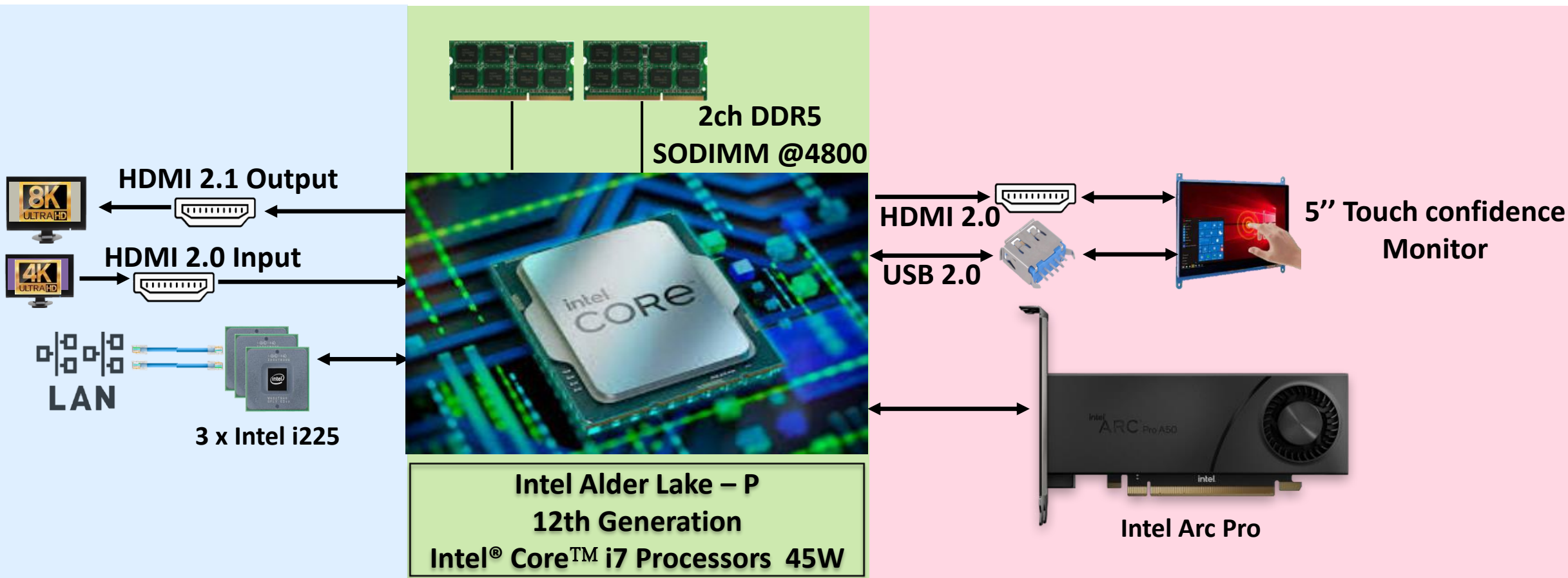


Intel Technology For UHD Live Video Contribution



Advantech
Video Streamer

- Configured Video Encoder /Decoder w/ VoIP
- Intel Alder Lake-P solution
- Encode: Up to 4Kp60 10bit 4:4:4 HEVC/VP9/SCC
- Decode(HDMI2.1): Up to 8Kp60 12 bit 4:2:0 HEVC/VP9/SCC
- HDR, 4:4:4 sampling, 10-bit color w/ preprocessing support(HDMI)

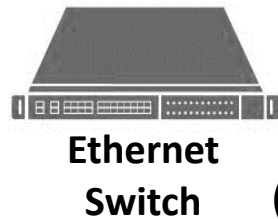


4K 360 Free Viewpoint - Live Video Workflow

With LightMatrix Engine

Multi-Channel
4Kp60 Live Video

RTSP
(GbE Lan)



Ethernet
Switch

RTSP
(2.5GbE Lan)

Inter Arc Pro

Decoding

Stitching

Cropping

4Kp60 Video RAW

Intel X^e GPU

Encoding

4Kp60 HEVC

Gen 12th Processor

Streaming

4Kp60
HLS/MPEG TS

HLS

MPEG TS



Advantech VEGA Video Streamer

Co-Creating the Future of the IoT World

