XSight™ 1721
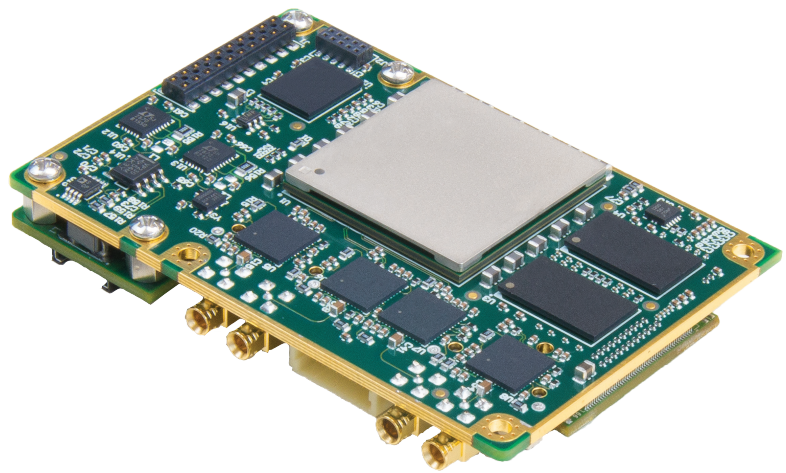
Ultra HD Video Processing Module

ADSYS
CONTROLS INC.

The XSight™ 1721 Video Processing Module provides advanced full motion video processing for target detection, tracking, video stabilization, and compression

XSight™ provides robust multi-target tracking, image stabilization, and video encoding on high resolution (up to 4K Ultra HD) video in a low SWaP package.

Modular design allows for enhanced capabilities such as multispectral image fusion, vision-guided landing, sense and avoid, moving target indicators (MTI), and vision-based navigation.

XSight™ provides vision solutions for an array of ISR, remote sensing, ground-based vehicle, security, robotic, and scientific applications.

KEY FEATURES

- » Small Size: 2.0" x 3.0" (Custom Manufacturing Available)
- » 4K Ultra HD (3840 x 2160) Video Support
- » Processing of up to 4 Simultaneous Video Streams
- » Multi-Target Tracking (Up to Ten Targets Simultaneously)
- » Digital Image/Video Stabilization
- » H.264/MPEG-4 Encoding
- » Metadata On-Screen Displays
- » Low-Power Consumption as Low as 6W
- » Weight: Under 55 grams

- » Video Resizing
- » Digital Zoom
- » Flexible Camera Interface Support
- » Modular I/O
- » Pre/post Processing Capable
- » Multi-Camera Support
- » Target-of-Interest Picture-in-Picture (TOI-PIP)

Adsys Controls provides

state-of-the-art solutions

for the

most challenging problems

XSight™ 1721
High-Definition Video Processing Module

SPECIFICATIONS

Size, Weight and Power
» 2.0" x 3.0" x 0.335"
» 55 grams
» 6 to 35W (Configurable depending on processing and peripherals)
» Power input 4.5 to 15V

Inputs / Outputs
» Supports up to 3840 x 2160 @ 30Hz (4K Ultra HD)
» Up to 4 HD-SDI Inputs/Outputs
» HDMI
» Camera Link (2 Channels)
» LVDS
» 10/100/1000 Ethernet
» CAN-bus
» 4 x RS-232 Channels (Configurable for RS-485/422)
» GPIO
» MicroSD Data Storage

Video Processing
» Image Stabilization
» Target Tracking
» Metadata Overlays
» Digital Zoom
» Video Signal Conversion
» Moving Target Indicators
» H.264/MPEG-4 Encoding Bit Rate Adjustable
» Multi-Target Tracking
» Target-of-Interest Picture-in-Picture (TOI-PIP)

Environmental
» -40° to 85°C Operating Environment

Applications
» Manned/Unmanned
  • Aerial Vehicles
  • Ground Vehicles
  • Underwater Vehicles
» Security and Surveillance Systems
» Vision-based Navigation
» Vision Guided Landing
» Sense and Avoid
» Border Patrol
» Optical Tracking Systems
» Traffic Surveillance

Adsys Controls provides solutions for precision control systems, advanced electro-optical systems, laser systems, modeling and simulation, and unmanned aerial systems for military and commercial markets. From electronics design, embedded RT software, and image processing to game-changing laser and electro-optical systems for ISR&T, weapons, communication, and navigation, Adsys Controls provides state-of-the-art solutions for the most challenging problems.

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