

DXStream-HDMI

Ultra Low Latency Standalone H.264 Streaming Client



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The DXStream-HDMI is an intelligent, stand-alone, ultra low latency H.264 streaming client that receives, decodes, and displays H.264 encoded video streams. The DXStream-HDMI supports the industry standard RTP/RTSP protocols for streaming data via the integrated 100/1000Mbit Ethernet connection. This SWaP optimised solution is ideal for rapid deployment in demanding applications in Military, Communications, Transportation, Mining and Energy industries.



The DXStream-HDMI features a dedicated hardware decode engine capable of decoding up to 1080p60 H.264 video at full size and full frame-rate with Ultra Low Latency (under 60ms). The intelligent streaming client is configured via a web interface and once configured the DXStream-HDMI runs autonomously without any user interaction.

The DXStream-HDMI is an intelligent stand-alone device with it's own on-board CPU and does not require a host CPU or any driver or OS software. For mechanical convenience the module can be mounted on a PC/104 stack without consuming host CPU resources.

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Ultra low latency,
Rapid deployment,
Rugged,
Video Streaming
Client



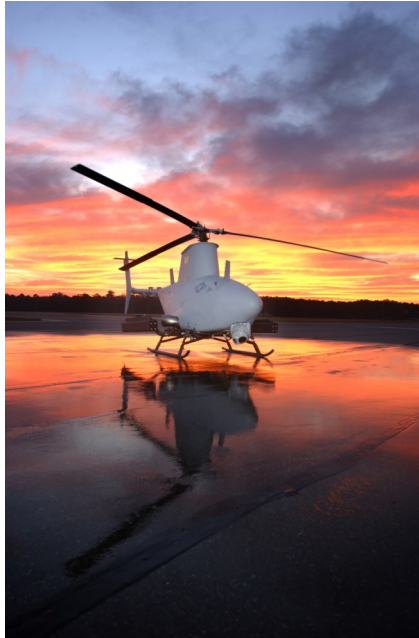
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Up to 1080p60

H.264 decode

to HDMI/DVI

Applications

All-round Real-Time Situational Awareness

Real-time video feedback from remote platforms

Unmanned vehicles (UAV, ROV)

Real-time IP video distribution

Remote Video Surveillance

Border Security

Traffic Monitoring and Control

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DXStream-HDMI

SWaP optimised for applications in the
Military,
Transportation,
Mining and
Energy Industries

Features

- Real-time H.264 decode at up to 1080p60
- Ultra Low Latency technology with latency below 60ms
- H.264/MPEG-4 AVC (Part 10) Decoder
- HDMI/DVI output
- RTSP/RTP streaming protocol support
- Single, rugged, real-time video streaming client solution
- Stand-alone operation
- Web interface for configuration
- Standard PC/104 mechanical form factor

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Video Output

HDMI/DVI output up to 1080p60.

H.264 Video Decoding

ITU-T H.264 (ISO/IEC 14496-10), supported profiles:

Baseline profile,

Main profile (I,P frame coding only)

High profile (I, P frame coding only) at level 4.1

Up to 1080p60 decode @ full frame rate

Supports Variable Bit Rate (VBR)

Supports Constant Bit Rate (CBR)

Streaming Protocols

RTSP (RFC2326) and RTP (RFC3350) support

RTSP/RTP over TCP

RTP over UDP

Ultra Low Latency

Less than 60ms video decode latency

Network Interface

100/1000MBit Ethernet for RTSP/RTP streaming and control

Mechanical

Intelligent stand-alone module, does not require host computer

Standard 4.55 x 3.775in PC/104 form factor

Mechanical mounting for PC/104 stack

Single +5V supply

Operating temp 0°C to 60°C

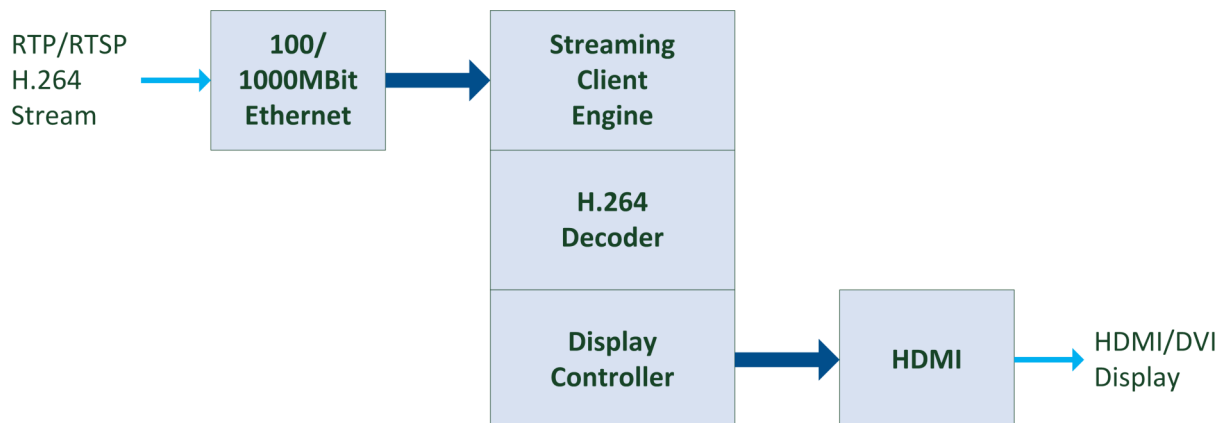
Operating temp -40°C to +85°C (extended temp option)

Ordering Information**DXStream-HDMI**

H.264 Ultra Low Latency Video Streamer (0 to 60°C)

DXStream-HDMI-EXT

H.264 Ultra Low Latency Video Streamer (-40°C to +85°C)



DXStream-HDMI Functional Diagram

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