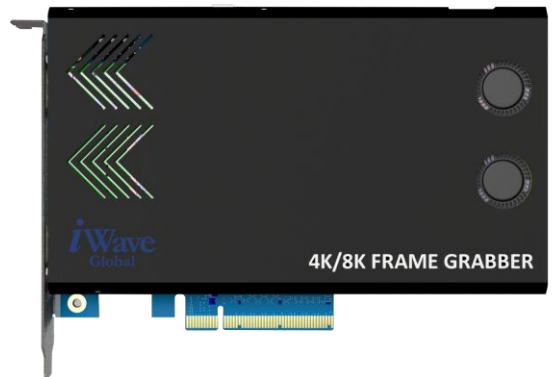


HDMI 2.1 8K / 4K Frame Grabber

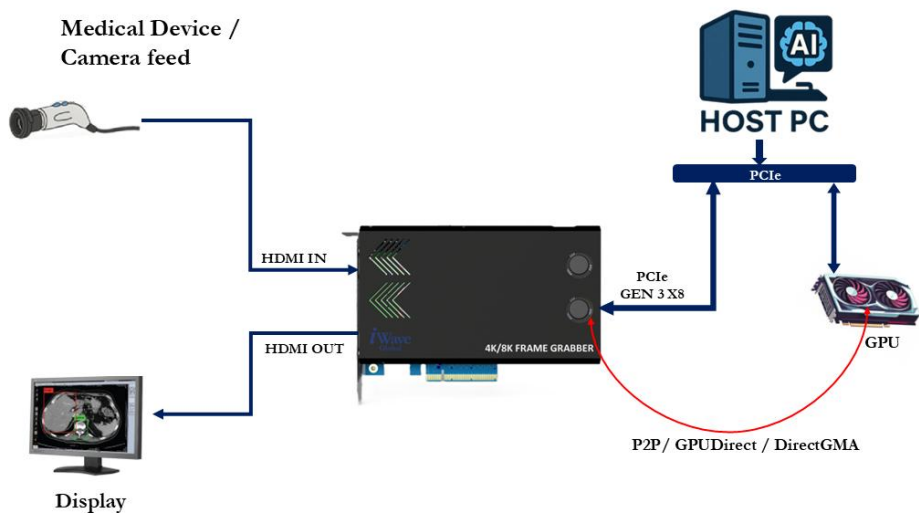
The HDMI 2.1 8K/4K frame grabber is engineered to capture high speed digital video streams over PCIe formfactor, simply install the card in any standard workstation or server, connect an HDMI 2.1 source, and start ingesting crystal clear video up to 8K @ 60 Hz or 4K @ 120 Hz. It supports real time streaming & high bandwidth storage on a host PC with plug and play drivers for Linux and windows*. Additionally, it can either loop-out the input stream to HDMI output with Zero latency or accepts video input from the host PC for transmission over HDMI 2.1 output. By delivering uncompressed Video with low latency and maximum throughput, this device is perfectly suited for performance critical, medical video applications.



Highlights

- ❖ Compliant with HDMI 2.1, supports max resolutions and refresh rates up to 8K @60FPS or 4k @120FPS.
- ❖ PCIe Gen 3 x8 lane with a total maximum theoretical bandwidth of 64Gbps.
- ❖ Compatible with AMD Direct GMA, NVIDIA GPU Direct & Supports Linux V4L2 framework and Microsoft AV stream*
- ❖ Full-Height Half-Length PCIe form factor, suitable for integration into Host PC systems.
- ❖ Compatible with Windows* & Linux OS for flexible deployment.
- ❖ Supports video node detection for applications like VLC media, OBS studios and more.

Application Block Diagram



Technical Specifications

Interfaces	• Supports • #2 HDMI 2.1 Input or • #2 HDMI 2.1 Output or • #1 HDMI 2.1 Input and Output. • PCIe Gen3 x8 edge connector • 1x µSD Connector • 1x Micro USB Type AB Connectors
Software Features	• Compatible with Linux operating system using V4L2 framework driver & Windows OS*. • Supports video node detection for automatic Video Device recognition for applications like VLC media, OBS studios and more. • Supports Application like Gstreamer and Ffmpeg. • HDMI 2.1 receiver data capture and Recording from the PCIe card to the host PC. • Multiple Resolutions supported with RGB, YUV: 4:4:4, 4:2:2, 4:2:0 Pixel formats. • On Board Video Test pattern generator. • Automatic detection of HDMI resolution and frame rate on the host. • HDMI loop out with zero latency support for reference distribution in multi card systems. • Support for video data streaming from the host PC to the HDMI 2.1 output
OS Support	• Linux OS • Windows OS*
Power Input	PCIe Slot Power
Form Factor	Full height (111.15 mm) and Half length (167.65 mm) PCIe form factor
Operating Temperature and Humidity	-40°C to 85°C and 20%-85% relative humidity.
Environment Specification	ROHS and REACH Compliant

Note:
***contact iwave global for windows OS support**

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