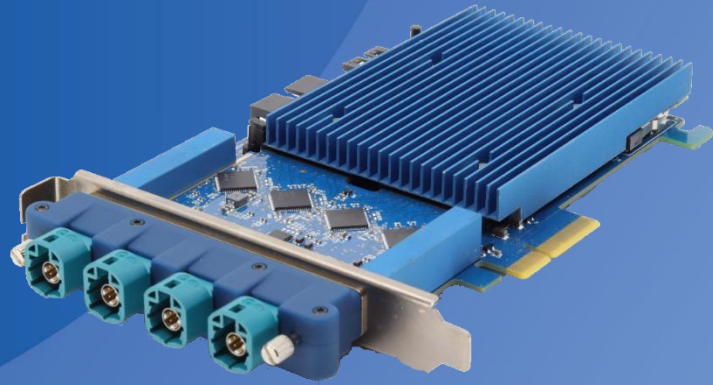


FrameGrabber 4

PCIe Card

The FrameGrabber 4 PCIe Card is a new arrival in FrameGrabbers family. It comes with a technology to capture multiple video streams from all VW Group LVDS buses including new GMSL3 bus. With a reasonable pricing, it defeats new challenges in video grabbing segment of automotive market.



FrameGrabber 4 PCIe Card forms a heart of FrameGrabber 4 ecosystem. It is powerful versatile solution for (not only) video applications. As a PCIe 2.0 x4 modular input / output card with 12Gbit data throughput, it has power for video stream grabbing of two video inputs together with generating of two video outputs in up to 4K@60 resolution.

FrameGrabber 4 PCIe Card is modular. User can easily swap exchangeable interface modules while PCIe card is installed in PCIe slot. Interface module allows to grab video streams from and inject video streams to various LVDS buses. However, versatility of interface modules brings also support for non-video applications, such as interfacing to various (automotive) buses (CAN, LIN, Flex Ray, etc.). CAN-FD / GPIO Trigger Expansion Bracket can be connected to PCIe card and placed in adjacent bracket. This expands functionality to support triggers by GPIO inputs and CAN-FD messages.

User of FrameGrabber 4 PCIe Card has freedom in usage. It can be used stand-alone as a performance solution, installed directly to PCIe slot in PC together with provided Windows 10 / Windows 11 / Linux driver. Video streams can be accessed via Direct Show (Windows) or Video4Linux (Linux) subsystems.

Single card can be installed into FG4 SingleBox and connected to PC via Thunderbolt 3 port in case of absence of PCIe slot (usage with laptops). Multiple cards can be installed into FG4 MultiBox and remotely accessed via Ethernet.

DQ Viewer tool is used for configuring FG4 ecosystem. It is used also as simple preview tool a video/screenshot recorder from video inputs and stream injector to video outputs.

Key features

- ✓ Video stream grabbing from majority of VW Group infotainment systems
- ✓ Supported FPD-Link III and GMSL2/3 LVDS systems used in the VW Group
- ✓ Up to two GMSL2/3 or FPD-Link III video line inputs (based on interface module)
- ✓ Up to two user-selectable captured video streams for GMSL2/3 interface
- ✓ GMSL2/3 video line Daisy Chain outputs with non-modified video streams
- ✓ Up to two GMSL2/3 or FPD-Link III video line outputs (based on interface module)
- ✓ CAN-FD trigger support
- ✓ GPIO trigger support
- ✓ Easy user installation and replacement of interface module
- ✓ Easy configuration via DQ Viewer tool

Available interfaces

- › LVDS GMSL 3/2
- › LVDS FPD-Link III
- › Various FPKs
- › CAN-FD / GPIO Triggers

Accessories

- › FG4 PCIe GMSL 2/3 Interface Module
- › FG4 PCIe FPD-Link III Interface Module
- › Various FPKs Interface Adaptors
- › FG4 PCIe CAN-FD / GPIO Trigger Expansion Bracket
- › H-MTD LVDS cable for GMSL 2/3
- › HSD LVDS cable for FPD-Link III

Technical parameters

Number of Interface Modules supported	1
Number of Expansion Brackets supported	1
User swappable Interface Module	YES
User attachable Expansion Brackets	YES
PCIe Specification	PCI-Express 2.0 x4
Supported OS	MS Windows 10; MS Windows 11, Linux
Power	PCIe power specification (10W max)
Operating temperature	0° C to 70° C
Dimensions (W × D × H)	121 × 165 × 22 mm
Weight	213 g (without Interface Module)



For ordering, further details and available accessories please contact us: business.products@digiteqautomotive.com

