

FrameGrabber 4

MultiBox One

The FrameGrabber 4 MultiBox One is a standalone video grabbing solution from the FrameGrabbers family. It allows capturing up to two video streams from various LVDS buses and directly from in-car displays. By integrating a powerful ARM based video processing platform, it delivers a new level of performance for video grabbing.



FrameGrabber 4 MultiBox One is part of Digiteq Automotive FrameGrabber 4 (FG4) modular ecosystem. It is a powerful, standalone and versatile solution not only for video applications. It is the best choice for laboratory and in-car applications thanks to its compact dimensions.

One FG4 PCIe Card (sold separately) can be inserted into the device, which brings capability for grabbing of up to 2 video inputs together with generating of 2 video outputs.

Captured video streams can be transmitted via 1 Gbit Ethernet as TCP/UDP stream to a remote PC or stored locally to either an internal SSD drive or a Memory Card.

The device supports H.264 and H.265 video coding and RGB or YUV colour coding for video that is stored locally and/or transmitted via Ethernet to a PC.

FrameGrabber 4 MultiBox One offers a wide range of triggered events. GPIO pins and the CAN-FD input can be used as trigger sources with the ability to assign various events to each trigger, such as start/stop capturing, entering sleep mode, etc.

CAN-FD inputs are used not only as the sources of trigger, but also full CAN-FD communication can be captured and re-streamed via 1 Gbit Ethernet as a TCP stream.

The User Web Interface is used for configuring the FrameGrabber 4 MultiBox One. It allows an advanced configuration of video input and output parameters, network and storage settings as well as the trigger subsystem.

Key features

- ✓ Video stream grabbing compatible with the majority of VW Group infotainment systems
- ✓ FPD-Link III and GMSL2/3 LVDS systems used in the VW Group are supported
- ✓ Various in-car displays grabbing adaptors are available
- ✓ One FG4 PCIe Card to be installed
- ✓ Up to two GMSL2/3 or FPD-Link III video line inputs (with 1 installed FG4 PCIe Card)
- ✓ Up to two GMSL2/3 or FPD-Link III video line outputs (with 1 installed FG4 PCIe Card)
- ✓ 1 Gbit Ethernet connection for real-time transfer of captured video streams
- ✓ H.264 and H.265 video coding
- ✓ RGB and YUV colour coding
- ✓ CAN-FD communication capture
- ✓ CAN-FD triggers
- ✓ GPIO triggers
- ✓ Storage of captured data on an internal 500 GB SSD and/or Memory Card
- ✓ Easy configuration via the User Web Interface

Available interfaces

- › PCI-Express 2.0 x4 for FG4 PCIe Card
- › 1 Gbit Ethernet
- › Internal SATA (500GB SSD included)
- › CAN-FD input
- › GPIO triggers
- › CAN-FD triggers
- › Memory Card slot
- › HDMI

Accessories

- › FG4 PCIe Card
- › FG4 PCIe GMSL 2/3 Interface Module
- › FG4 PCIe FPD-Link III Interface Module
- › Various in-car displays grabbing interface adaptors
- › Power adaptor for ICE cars

Technical parameters

Number of PCIe slots	1
Number of Gbit Ethernet	1
Number of Internal SSD Drives	1
Number of Memory Card slots	1
Number of HDMI Interfaces	1
Number of GPIO Trigger Inputs	2
Number of GPIO Outputs	1
Number of CAN-FD Trigger Inputs	2
User swappable PCIe Cards	YES
PCIe specification	PCI-Express 2.0 x4
PCIe slots Power	PCIe power specification (10W / slot)
Input power	9 – 30 V DC
Operating temperature	0° C to 70° C
Dimensions (W × D × H)	153 x 245 x 100 mm
Weight	2,08 kg (without PCIe cards)



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

