G CAR 6222 Video Dragon

Capture and generation of video data

- capture and generation of video data in a single device
- test of displays or camera systems with LVDS interface
- modular design, consisting of baseboard and exchangeable media interface
- easy adaption to different serializers/deserializers
- support of GMSL 1/2, FPD Link II/III and APIX 2/3 standards for image data
- sideband communication depending on media interface via UART, I²C, SPI or MII
- resolution up to 4 k freely configurable
- transfer of data streams (integration into existing systems without influencing them)
- available as stand alone device

G CAR 6222 Video Dragon and PCIe card G PCIe 6222 Video Dragon
## Technical specifications

### G CAR 6222 Video Dragon - Grabber and generator

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>resolution</td>
<td>freely configurable up to 4 k</td>
</tr>
<tr>
<td>video formats</td>
<td>RGB888, YUV422 and RAW</td>
</tr>
<tr>
<td>digital I/O</td>
<td>2 digital inputs, 2 digital outputs</td>
</tr>
<tr>
<td>options</td>
<td>CAN FD interface, CAN via UART</td>
</tr>
<tr>
<td>temperature range</td>
<td>0 - 50 °C</td>
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<tr>
<td>host interface</td>
<td>1 GBit Ethernet</td>
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### Performance
- based on a Xilinx MPSoC with Quad-Core ARM Cortex-A53 and FPGA
- Realtime Operating System
- lowest latencies
- 4 x PCIe Gen2 (G PCIe 6222)

### Application
- test of display or camera systems with LVDS interface
- sideband communication
- integration into existing systems without influencing them

### Options
- CAN FD interface
- CAN via UART

### Transmission standards
- FPD-Link II / FPD-Link III
- GMSL 1 / GMSL 2
- APIX 2 / APIX 3

### Software
- G API for Windows and Linux
- LabVIEW VIs
- intuitive operating software Dragon Suite

### Modularity
- high flexibility regarding individual configuration
- exchangeable media interface modules
- support of all current serializer / deserializer

### Sideband
- UART
- SPI
- PCl
- MII

### Design
- G Patch 6222
- G CAR 6222 Video Dragon
- G PCIe 6222 Video Dragon

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ISO 9001 certified

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