G-FIP
Flash In-System Programming (ISP)
via Automotive Busses

- high-performance Flash programming of control units in end-of-line systems, in the laboratory, in development and on repair stations
- maximum use of available automotive bus bandwidth
- programming and verification of Flash data via specific Flash IPs
- Flash algorithm not required to remain permanently in the control unit
- wide range of hardware interfaces available
- easy integration into existing software environments
- support of various automotive busses and processor platforms
Technical Specification

**G-FIP - Flash In-System Programming via Automotive Busses**

### Programming Controller Serie 61

<table>
<thead>
<tr>
<th>Host interface</th>
<th>PXI / PCI / Ethernet / USB</th>
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</thead>
<tbody>
<tr>
<td>number of channels</td>
<td>CAN, CAN FD - up to four channels, FlexRay - up to two channels</td>
</tr>
<tr>
<td>software support</td>
<td>GÖPEL C-API as DLL (G-API) and LabVIEW library</td>
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<tr>
<td>integrated protocols</td>
<td>XCP, transport protocols, diagnostic protocols, network management</td>
</tr>
<tr>
<td>parallelism</td>
<td>programming of 4 targets in parallel</td>
</tr>
</tbody>
</table>

### Technical Specification

- **Modularity**
  - adaption to the different automotive busses via plugin transceiver modules

- **Multivalent use**
  - in end-of-line systems, in the laboratory, in development and on repair stations

- **Flexibility**
  - applications for different hardware platforms and processor architectures

- **Integration**
  - extensive system and programming functions for easy integration into already existing applications

- **Performance**
  - use of integrated IPs for reduced programming time

- **Speed**
  - use of full bus bandwidths for maximum flash data transmission performance

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![Made in Germany](image)

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