

## EB Assist ADTF – Development and test environment for driver assistance and highly automated driving software

Flexible and extendable set of modules for various needs and use cases

### Standard and optional toolboxes of EB Assist ADTF

<p><b>EB Assist Device Toolbox</b> Included in EB Assist ADTF 2.x Included in EB Assist ADTF 3.x</p>	<p>The EB Assist Device Toolbox is the connection to various hardware devices:</p> <ul style="list-style-type: none"> <li>▶ Vector CANCard</li> <li>▶ Peak CAN</li> <li>▶ MOST Vector VN2610</li> <li>▶ SMSC Optolyzer</li> <li>▶ Vector VN3300, VN3600, VN7600</li> <li>▶ Eberspächer FlexCard</li> <li>▶ DirectShow Video Devices</li> <li>▶ IDS µEye</li> <li>▶ mvBlueFox</li> <li>▶ Video4Linux</li> </ul>
<p><b>EB Assist Display Toolbox</b> Included in EB Assist ADTF 2.x Included in EB Assist ADTF 3.x</p>	<p>The EB Assist Display Toolbox offers different visualization modules:</p> <ul style="list-style-type: none"> <li>▶ 3D Scene Display</li> <li>▶ 2D Display</li> <li>▶ Signal View</li> <li>▶ Qt Display Filter</li> <li>▶ Scope Display</li> <li>▶ Table Display</li> <li>▶ X-Y Display</li> </ul>
<p><b>EB Assist Compression Toolbox</b> Included in EB Assist ADTF 2.x</p>	<p>The EB Assist Compression Toolbox allows the compression and decompression of video streams.</p>
<p><b>EB Assist Calibration Toolbox</b> Available for EB Assist ADTF 2.x Included in EB Assist ADTF 3.x</p>	<p>The EB Assist Calibration Toolbox consists of multiple filters to support CCP / XCP communication with an ECU. The toolbox supports different bus types like CAN, FlexRay or Ethernet.</p> <ul style="list-style-type: none"> <li>▶ XcpOnCanDevice</li> <li>▶ XcpOnEthernetDevice Filter</li> <li>▶ XcpOnFlexRayDevice Filter</li> <li>▶ XcpCodec Filter: The XcpCodec Filter is used to establish a physical connection between ADTF and an electronic control unit using the XCP Protocol.</li> </ul> <p><b>CpDisplay Filter:</b> The CpDisplay Filter is used to read and change the signal values of one or more control units</p>
<p><b>EB robinos Provider for EB Assist ADTF</b> Available for EB Assist ADTF 2.x</p>	<p>The EB robinos Provider for EB Assist ADTF makes EB`s series grade navigation solution EB street director available within EB Assist ADTF. In addition to live or recorded GPS data, a route simulation mode is supported.</p> <ul style="list-style-type: none"> <li>▶ Live or recorded GPS track</li> <li>▶ Route simulation</li> </ul> <p style="text-align: right;">continued on the next page →</p>

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## EB Assist ADF – Development and test environment for driver assistance and highly automated driving software

Flexible and extendable set of modules for various needs and use cases

### Standard and optional toolboxes of EB Assist ADF

<p><b>EB robinos Provider for EB Assist ADF</b> Available for EB Assist ADF 2.x</p>	<ul style="list-style-type: none"> <li>▶ Batch mode for automated test</li> <li>▶ Interactive map</li> </ul> <p>The EB robinos Provider for EB Assist ADF is part of the EB robinos Predictor.</p>
<p><b>EB robinos Reconstructor for EB Assist ADF</b> Available for EB Assist ADF 2.x</p>	<p>The EB Assist Reconstructor consists of a set of EB Assist ADF filters. These filters support the development, test and verification of Electronic Horizon based advanced driver assistance systems.</p> <ul style="list-style-type: none"> <li>▶ Visualize electronic horizon tree</li> <li>▶ View all data textual</li> <li>▶ Generate memory usage statistics</li> <li>▶ Execute Reconstructor compliance tests</li> </ul> <p>The EB robinos Reconstructor is part of the EB robinos Predictor.</p>
<p><b>EB Assist Car Data Recorder (CDR) Toolbox</b> Available for EB Assist ADF 2.x</p>	<p>The EB Assist Car Data Recorder Toolbox lets you concentrate on the data recording task, keeping the technical details within the EB Assist CDR Toolbox:</p> <ul style="list-style-type: none"> <li>▶ CDR Server <ul style="list-style-type: none"> <li>▶ Connect remote user interface</li> <li>▶ Remote connectivity to 3rd party tools (e.g. test automation)</li> <li>▶ Control and monitor ADF functionality</li> </ul> </li> <li>▶ CDR Advanced Signal Management <ul style="list-style-type: none"> <li>▶ Signal to ADF DDL Recording</li> <li>▶ Partial CAN DBC generation</li> <li>▶ Signal Trigger Manager</li> <li>▶ Lossless Signal Compression</li> <li>▶ Virtual signal generation using built-in LUA scripting interface</li> <li>▶ Using a build-in LUA scripting engine, EB Assist CDR lets you generate complex trigger conditions or signal calculations at run time without even touching a C++ compiler.</li> </ul> </li> </ul>
<p><b>Matlab/Simulink® Blockset</b> Available for EB Assist ADF 2.x</p>	<p>The ADF ML/SL Blockset is used for data exchange between ADF and MATLAB/Simulink. The exchange of data with ML/SL Blockset is based on the Data Description Language (DDL) and uses the ADF Message Bus for communication between the applications.</p>
<p><b>EB Assist ARXML Communication Toolbox</b> Available for EB Assist ADF 2.x</p>	<p>The EB Assist ARXML Communication Toolbox supports the description of CAN, FlexRay, and SOME/IP, using ARXML 4.2.1 within EB Assist ADF by replacing the existing CAN and FlexRay parser.</p>

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