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

EB Assist Device Toolbox Included in EB Assist 2.x Included in EB Assist 3.x	The EB Assist Device Toolbox is the connection to various hardware devices: ▸ Vector CANCard ▸ Peak CAN ▸ MOST Vector VN2610 ▸ SMSC Optolyzer ▸ Vector VN3300, VN3600, VN7600 ▸ Eberspächer FlexCard ▸ DirectShow Video Devices ▸ IDS µEye ▸ mvBlueFox ▸ Video4Linux
EB Assist Display Toolbox Included in EB Assist 2.x Included in EB Assist 3.x	The EB Assist Display Toolbox offers different visualization modules: ▸ 3D Scene Display ▸ 2D Display ▸ Signal View ▸ Qt Display Filter ▸ Scope Display ▸ Table Display ▸ X-Y Display
EB Assist Compression Toolbox Included in EB Assist 2.x	The EB Assist Compression Toolbox allows the compression and decompression of video streams.
EB Assist Calibration Toolbox Available for EB Assist 2.x Included in EB Assist 3.x	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. ▸ XcpOnCanDevice ▸ XcpOnEthernetDevice Filter ▸ XcpOnFlexRayDevice Filter ▸ XcpCodec Filter: The XcpCodec Filter is used to establish a physical connection between ADTF and an electronic control unit using the XCP Protocol. CpDisplay Filter: The CpDisplay Filter is used to read and change the signal values of one or more control units
EB Assist Map Information Toolbox Available for EB Assist 2.x	The EB Assist Map Information Toolbox including the Electronic Horizon Provider 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. ▸ Live or recorded GPS track ▸ Route simulation

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EB Assist Map Information Toolbox Available for EB Assist 2.x	▶ Batch mode for automated test ▶ Interactive map The EB Assist Map Information Toolbox is part of EB robinos Predictor.
EB Assist Reconstructor Toolbox Available for EB Assist 2.x	The EB Assist Reconstructor Toolbox consists of a set of EB Assist ADTF filters. These filters support the development, test and verification of Electronic Horizon based advanced driver assistance systems. ▶ Visualize electronic horizon tree ▶ View all data textual ▶ Generate memory usage statistics ▶ Execute Reconstructor compliance tests The EB Assist Reconstructor Toolbox is part of EB robinos Predictor.

EB Assist Car Data Recorder (CDR) Toolbox
Available for EB Assist 2.x
	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:
	
	▶ CDR Server
	  ▶ Connect remote user interface
	  ▶ Remote connectivity to 3rd party tools (e.g. test automation)
	  ▶ Control and monitor ADTF functionality
	▶ CDR Advanced Signal Management
	  ▶ Signal to ADTF DDL Recording
	  ▶ Partial CAN DBC generation
	  ▶ Signal Trigger Manager
	  ▶ Lossless Signal Compression
	  ▶ Virtual signal generation using built-in LUA scripting interface
	  ▶ 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.

Matlab/Simulink® Blockset Available for EB Assist 2.x	The ADTF ML/SL Blockset is used for data exchange between ADTF and MATLAB/Simulink. The exchange of data with ML/SL Blockset is based on the Data Description Language (DDL) and uses the ADTF Message Bus for communication between the applications.
EB Assist ARXML Communication Toolbox Available for EB Assist 2.x	The EB Assist Communication Toolbox supports the description of CAN, FlexRay, SOME/IP, and ARXML 4.2.1 within EB Assist ADTF by replacing the existing CAN and Flexray parser.