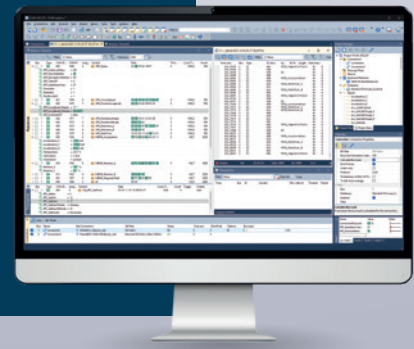


PCAN-Explorer 7



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PCAN-EXPLORER 7

EXPLORE THE DIFFERENCE

PCAN-Explorer 7 is a comprehensive, professional software for working with CAN CC, CAN FD, and CAN XL buses. By connecting to one or more CAN buses, users gain access to a wide range of options for monitoring the CAN traffic, individual messages, or specific data signals. Through manual or periodic message transmission, the bus can be directly influenced, for example, for control purposes or simulations.

CORE FUNCTIONALITIES

- ✓ **Project-based workflow:** Manage settings, information, and files in projects; export complete projects for archiving or sharing.
- ✓ **Multi-channel operation:** Connect to CAN CC, CAN FD, and CAN XL, up to 64 CAN channels, and use multiple PEAK CAN interfaces in parallel (hardware type independent).
- ✓ **Transmit and receive:** Sortable RX/TX lists; manual and periodic transmission; transmit lists to emulate CAN nodes.
- ✓ **Trace and export:** Record to file, replay traces, filter recordings, export to readable text or CSV.
- ✓ **Readable signals instead of raw bytes:** Symbolic representation via Symbol files turns payload data into an understandable format, signal monitoring via Watch window.
- ✓ **Automation and extensibility:** Macros and scripting with object model access, add-ins like Plotter, Instruments Panel, third-party database imports, J1939 (FD) support.

VERSION 7 OF PCAN-EXPLORER

NEW VERSION. NEW FEATURES.



CAN XL SUPPORT

CAN XL uses the same two-line High-speed CAN cabling and is backward-compatible with CAN FD and CAN CC (Classic) devices. It supports bit rates of up to 20 Mbit/s and payloads of up to 2048 bytes. CAN XL also includes predefined structure elements to indicate data types such as tunneling, virtual networking, and security extensions.



APPLY MULTIPLE SYMBOL FILES

Up to PCAN-Explorer 6, only a single Symbol file (PEAK-System's CAN database format) could be assigned to a connection, so adding a new device required merging its CAN message definitions into the existing file. In PCAN-Explorer 7, you can apply additional Symbol files to a connection as needed, including third-party databases, supported via the CANdb Import and AUTOSAR XML Import add-ins.



PYTHON SCRIPTING

PCAN-Explorer 7 adds Python scripting alongside VBScript, providing full Object Model access for automation tasks. It includes built-in examples and ships with common modules (e.g., numpy, requests, lxml, pyserial, pywin32) plus standard dependencies, with easy support for adding more.



ENHANCED LICENSING

PCAN-Explorer 7 uses the CodeMeter licensing system, offering flexible options such as new floating licenses for enterprise use and a self-hosted licensing server. Single-user licenses and license dongles remain available.



FINE-GRADED TRACE PLAYBACK

When replaying a CAN trace file for testing, you can run the full stream or step through messages in meaningful chunks using breakpoints, including single-step playback. Text-based trace files from PEAK tools work directly, and formats like MDF4 and BLF can be imported.



J1939 FD SUPPORT

SAE J1939 has been extended with J1939 FD, which uses CAN FD frames while keeping the same parameter groups as classic J1939. Its transport layer is optimized for CAN FD's higher data rates and larger payloads, especially for multi-packet messages. PCAN-Explorer 7 can analyze J1939 FD traffic using the J1939 Add-in.



HIGHLIGHTING DATA CHANGES

Wondering if any incoming CAN message has changed its data since the previous reception? In the Receive list of CAN messages and in the Watch window for signals, this can now easily be detected visually, as changes in data bytes are highlighted.



IMPROVED PERFORMANCE

The daily work experience with PCAN-Explorer 7 benefits from the 64-bit foundation and separate engines for communication tasks and the user interface.

THE SOFTWARE AT A GLIMPSE

PCAN-Explorer 7 is designed as a modular, project-oriented software platform. At its core, the software is built around a central project structure that bundles bus connections, symbol definitions, scripts, traces, and visualizations into one reusable configuration dashboard. Users assemble a project by selecting customized interfaces, assigning database files, and adding optional add-ins that extend functionality. In this overview, the most important elements of the main workspace are explained.

MAIN MENU & TOOLBAR

In addition to many management functions, the main menu provides access to various default settings and additional tools.

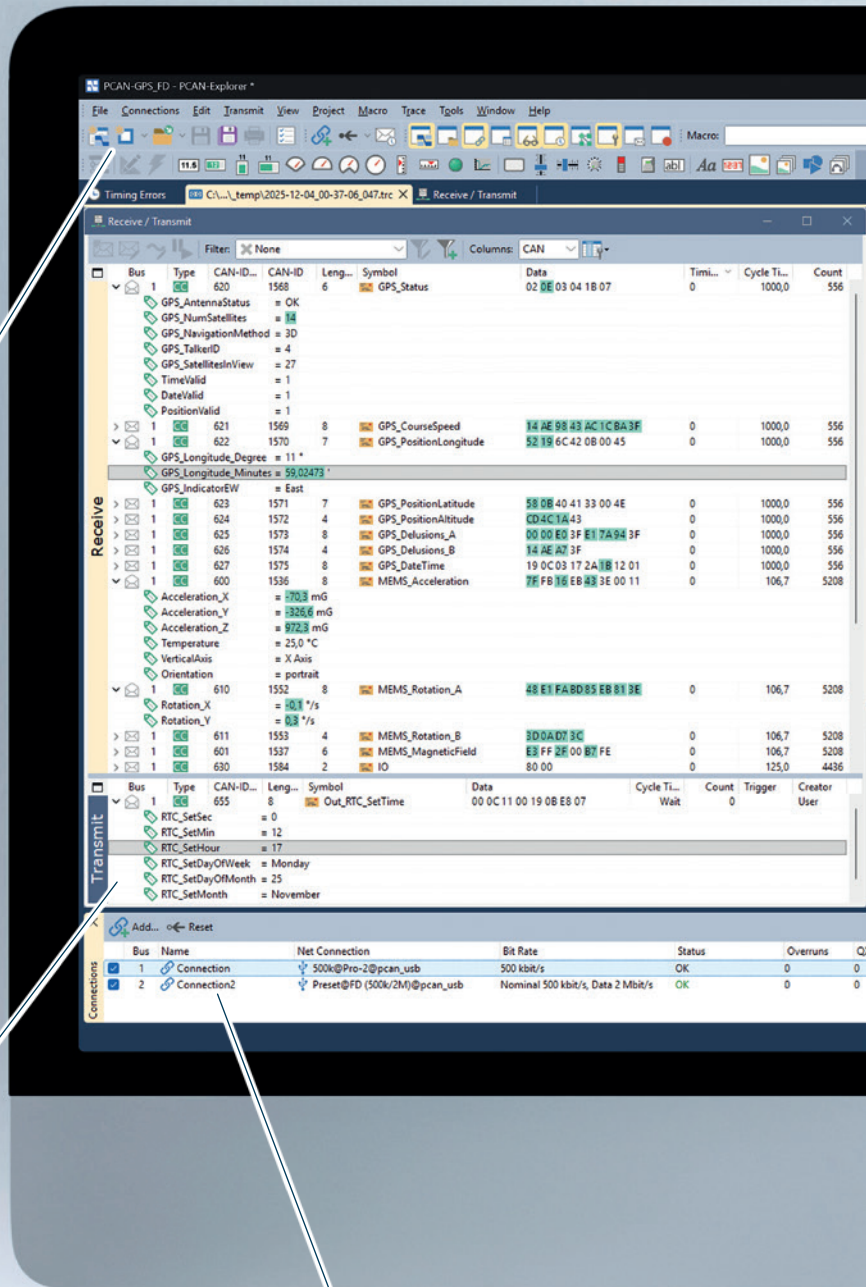
The toolbar allows you to perform many functions of the core PCAN-Explorer, such as handling windows or controlling tracing. Also functions of add-ins are accessible, like inserting a specific instrument.

RECEIVE/TRANSMIT WINDOW

This is the main overview of incoming CAN messages. Additionally, you can set up a list of predefined CAN messages with data for transmission. PCAN-Explorer interprets the data bytes of CAN messages using Symbol files and displays the included signals with their names. Changes to incoming data are highlighted to make it easier to analyze what is happening on the CAN bus.

CONNECTIONS

Up to 64 connections can be established to real CAN buses of different types and bit rates, as well as to internal PCAN nets (virtual CAN buses). These connections can be used to link to other software clients, such as those used for simulation. CAN data from the different connections can be aggregated via scripting.



TRACER

Starting a trace recording opens the window, by default recording all incoming and outgoing CAN messages with time stamps to a file. Besides optional filtering, recently recorded traces or those being loaded from a file can be replayed in one move, up to break points, only in a time range, or step by step.

PROJECT MANAGER

Gives an overview of all elements, which are related to the current project. On the one hand, those are linked files that can be used by PCAN-Explorer, on the other hand, connections, signals, or project-specific keyboard shortcuts are listed and can be managed.

PROPERTIES

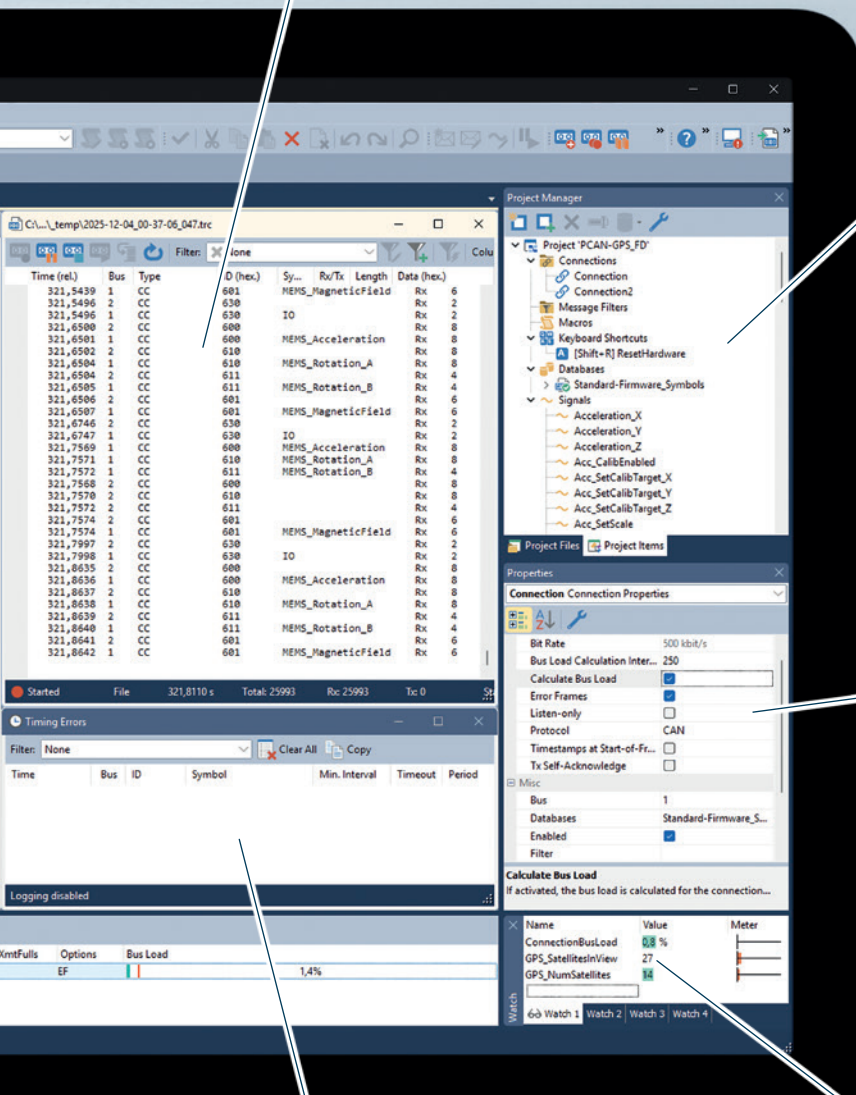
The properties of the currently selected item in the PCAN-Explorer user interface are listed. Some properties merely provide information about the item, while others can be altered. For example, you can enable the display of Error frames for a connection.

WATCH WINDOW

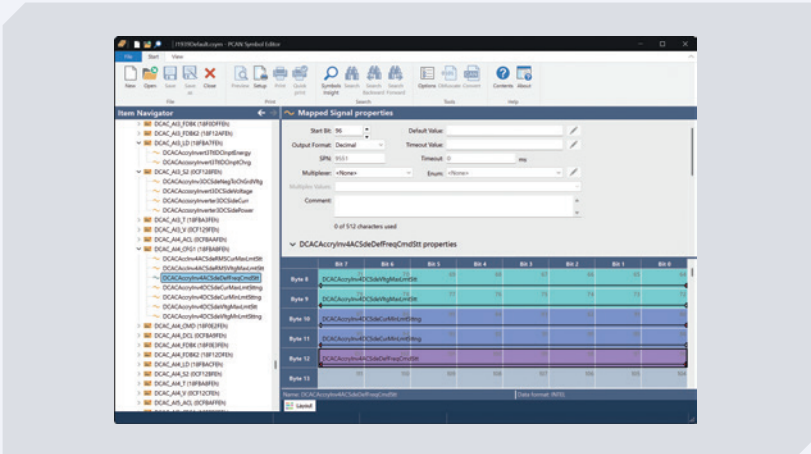
The overwhelming amount of information provided by many different CAN messages on the bus may make it difficult to maintain an overview of the data. In the Watch window, you can create your own lists of important signals and focus on how they behave in specific situations.

TIMING ERRORS

Assigning a timeout to an incoming CAN ID allows you to check interrupted reception of that message. The window displays the protocol when an affected CAN message is missing. A minimum time interval may also be of interest for analysis.



FUNCTIONAL HIGHLIGHTS

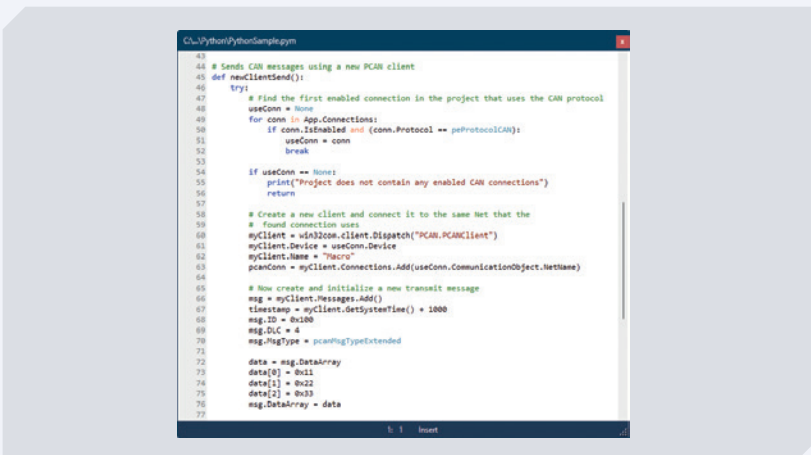
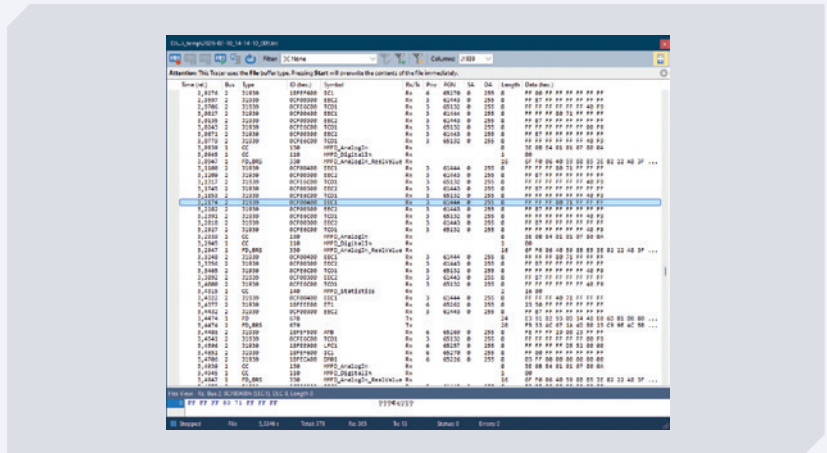


SYMBOL INTERPRETATION

A central feature of the program is the symbolic representation of CAN messages. With the help of PEAK-System's Symbol files or compatible third-party databases, the program instantly translates the CAN IDs and payload data into a readable and easily understandable format.

MESSAGE TRACES

The trace function allows recording and playback of data traffic from or to several buses simultaneously. For in-depth analysis, playback can be done step by step or with breakpoints. Incoming CAN messages as well as recordings can be filtered using various criteria.



SCRIPTING FUNCTIONALITY

Special requirements as well as the automation of complex processes can be implemented using simple macros, advanced scripts in Python or VBScript, and callback functions. For this, the entire PCAN-Explorer 7 object model is accessible via Python and VBScript.

ADD-INS

Add-ins are optional, modular extensions for the PCAN-Explorer 7 software. They expand the core application's capabilities beyond the standard monitoring, scripting, and trace functions, enabling specialized workflows, richer data interpretation, and support for industry standards. Within

PE7, a total of four Add-ins is provided. For each of them, a twelve month maintenance period is included upon the initial purchase, additional maintenance can be acquired upon request (see page 9 for more details).



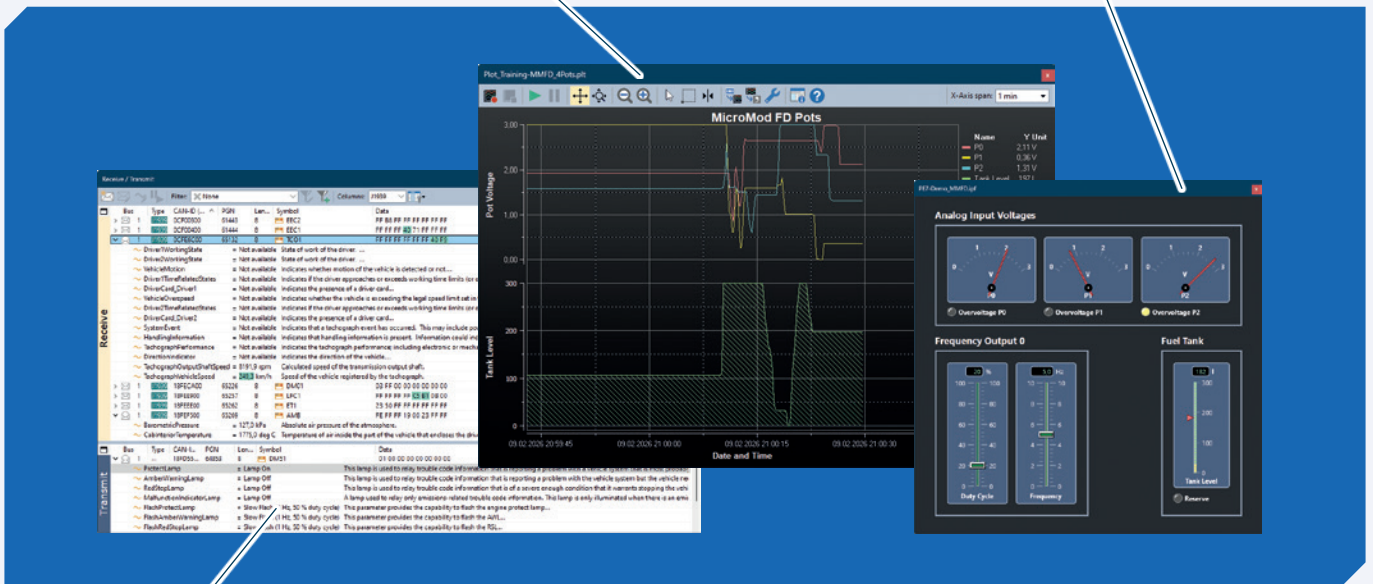
PLOTTER ADD-IN 7

The Plotter Add-in records and graphically displays any number of signal courses. Signals can come from incoming/outgoing CAN messages, virtual variables, or script and macro calculation results. The free Windows Plot Viewer lets you view recordings without installing PCAN-Explorer.



INSTRUMENTS PANEL ADD-IN 7

The Instruments Panel Add-in displays digital and analog signals using various instruments. Integrated inputs and controllers can also generate CAN bus messages, enabling simple simulations, test benches, and complex monitoring applications.



J1939 ADD-IN 7

The SAE J1939 protocol defines CAN bus communication in utility vehicles for transmitting diagnostic and control data, using 29-bit CAN IDs. In addition to the CAN CC-based J1939, J1939 FD (based on CAN FD) enables higher data rates and better responsiveness. The PCAN-Explorer J1939 Add-in supports all standard parameter groups, provides easy parameter access, includes a regularly updated database (with an active maintenance contract), and allows custom Parameter Groups based on database PGs.



BUS DESCRIPTIONS ADD-IN 7

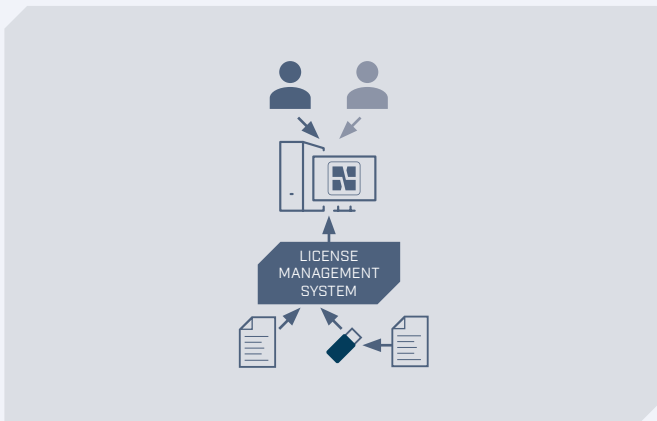
CANdb and AUTOSAR XML are common data description formats for CAN bus information in the car industry and further areas. The Bus Descriptions Add-in includes the former CANdb Import Add-in and the new AUTOSAR XML Import Add-in allowing the use of those formats in PCAN-Explorer 7. Furthermore, specific bus descriptions from such files can be imported into our Symbol file format using the PCAN-Symbol Editor. Vice versa, an export to .dbc files is possible, too.

FLEXIBLE AS NEVER BEFORE

LICENSE MODELS

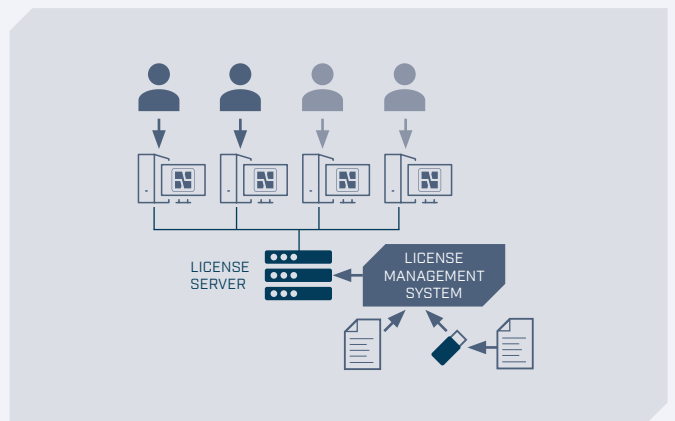
PCAN-Explorer 7 is designed for professional individuals and whole engineering teams. With our flexible license models, we can provide the ideal solution for any usage requirement. From single users, to large teams, from local installations to network solutions – we have got you covered!

SINGLE USER LICENSES



This type of product license is designed for single users who use PE7 on a designated computer. It can either be activated locally on a computer or on a USB license dongle (USB-A or USB-C) for a more flexible usage on different devices. Both variants of single user licenses are handled within our license management system CodeMeter by Wibu.

FLOATING LICENSES



Floating licenses have been developed for small and large teams who use the PE7 within a network (as well via VPN). As for the single license, the activation is done on a computer locally or USB license dongle (USB-A or USB-C). The license itself runs on a dedicated license server that enables the flexible use of PE7 within teams. One user can use one Floating License at a time.

TRIAL LICENSES

Users who want to try out PCAN-Explorer 7 before buying can get a free trial license. This license provides full functionality of PE7 including all add-ins. Users can try this version for 30 days. It can be received by sending a request to our technical support team. Get your trial license now!

IS IT POSSIBLE TO UPGRADE FROM PREVIOUS PCAN-EXPLORER VERSIONS TO PE7?

Yes, users of PCAN-Explorer 6 can upgrade to PCAN-Explorer 7. Depending on the date of purchase, users will get an attractive discount for their upgrade. To migrate to the latest PE7 version, please contact your distributor or our technical support.



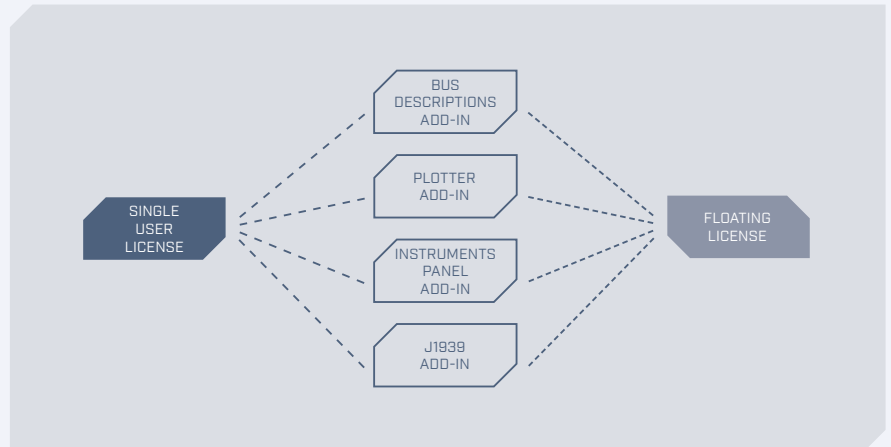
MAXIMUM FUNCTIONS. ENDLESS OPTIONS

FULL BUNDLE PACKAGE

PE7 is not only available as a single user or floating license with additional Add-ins, but can also be purchased as a Full Bundle. This all-inclusive packages include the single user or floating license and comes with all add-ins.

Full Bundle part numbers:

- Single User License: IPES-007100
- Floating License: IPES-007300



ENDLESS USAGE

RELIABLE MAINTENANCE

All PE7 license versions can be used without any time limit. Once purchased, users can perpetually use all functionalities. All licenses already include 12 months of product maintenance starting with the activation date. This does not only cover the core software, but also all Add-ins. Our active maintenance service includes bug fixes, updates and new features as well as feature improvements. Additionally, it contains upgrades to new major versions. With this service, users stay up-to-date and don't have to fear missing out relevant product innovations.

As soon as the included maintenance period is over, users can freely choose whether to extend the maintenance for another 12 months or just continue with the current version. Longer maintenance periods for two or more years can individually be requested at our Technical Support.



PERPETUAL LICENSES

PCAN-Explorer 7 license, optionally:

- Bus Descriptions Add-in
- Plotter Add-in
- Instruments Panel Add-in
- J1939 Add-in

available as Single or Floating variants.

All licenses include 12 months of product maintenance upon purchase.

OPTIONAL PRODUCT MAINTENANCE

Active maintenance guarantees:

- Bug fixes
- Updates, new or improved features
- Upgrades to new major versions

Product maintenance renewal covers 12 additional months.

VERSIONS AND PRICES

Valid as of 2026-02-01 – Prices are subject to change without prior notice.

SINGLE USER LICENSES – PCAN-EXPLORER 7

Single Software*	Part no. & Price	Maintenance extension 12 Months
PE7 Single User License	IPES-007000 600 €	IPES-007000-M12 120 €
PE7 Full Bundle (incl. all add-ins)	IPES-007100 1,300 €	IPES-007100-M12 260 €

Single Add-ins	Part no. & Price	Maintenance extension 12 Months
Bus Descriptions Add-in 7	IPES-007086 180 €	IPES-007086-M12 40 €
Plotter Add-in 7	IPES-007087 180 €	IPES-007087-M12 40 €
Instruments Panel Add-in 7	IPES-007088 180 €	IPES-007088-M12 40 €
J1939 Add-in 7	IPES-007089 350 €	IPES-007089-M12 70 €

USB Dongles	Part no. & Price
PEAK-License Dongle USB-A	IPES-007090 120 €
PEAK-License Dongle USB-C	IPES-007091 120 €

*Single User Licenses and Full Bundles include 12 months of maintenance.

FLOATING LICENSES – PCAN-EXPLORER 7

Floating Software*	Part no. & Price	Maintenance extension 12 Months
PE7 Floating License	IPES-007200 1,110 €	IPES-007200-M12 220 €
PE7 Full Bundle (incl. all add-ins)	IPES-007300 2,400 €	IPES-007300-M12 480 €

Floating Add-ins	Part no. & Price	Maintenance extension 12 Months
Bus Descriptions Add-in 7	IPES-007286 330 €	IPES-007286-M12 70 €
Plotter Add-in 7	IPES-007287 330 €	IPES-007287-M12 70 €
Instruments Panel Add-in 7	IPES-007288 330 €	IPES-007288-M12 70 €
J1939 Add-in 7	IPES-007289 650 €	IPES-007289-M12 130 €

*Floating Licenses and Floating Full Bundles include 12 months of maintenance.

YOU HAVE QUESTIONS?

WE HAVE THE ANSWERS.

If you're missing any information around PE7, have a look at our FAQ section on our landing page. We have put together the most important questions and answers about the product itself, its licensing models, installation, upgrade and maintenance options, scripting models and many more.

Start exploring!



FROM SOFTWARE TO HARDWARE

PCAN-USB XL INTERFACE

Accelerate your work with the CAN XL standard using the PCAN-USB XL hardware interface from PEAK: a compact, robust and galvanically isolated USB-to-CAN interface designed for engineers who need reliable access to CAN XL, CAN FD, and Classic CAN networks directly from a Windows or Linux PC. Built for laboratories, bench, and mobile use, this interface bridges computers with high-speed auto-

otive and industrial buses, supporting payload-intensive applications such as ECU flash programming, large-frame diagnostics and protocol evaluation.

The combination of the PCAN-Explorer 7 software for Windows with the PCAN-USB XL Interface is a future-proof and powerful setup for engineers who start working with CAN XL on a professional level.



TECHNICAL HIGHLIGHTS

- ✓ High-speed USB 2.0 (compatible to 3.0)
- ✓ High-speed CAN (ISO 11898-2 2024)
 - Complies with CAN CC, CAN FD, and CAN XL specifications
 - CAN bit rates: 20 kbit/s to 1 Mbit/s
 - CAN FD data bit rates: up to 8 Mbit/s
 - CAN XL data bit rates: up to 8 Mbit/s, CAN FD compatible trans. mode
 - CAN XL data bit rates: up to 20 Mbit/s using transceiver mode switch
 - CAN bus connection via D-Sub 9-pin
- ✓ Time stamp resolution 1 μ s
- ✓ FPGA implementation of the CAN XL core by PEAK-System, validated with CAN XL Evaluation Board by C&S
- ✓ CAN SIC XL transceiver TI TCAN6062V
- ✓ Galvanic isolation up to 500 V
- ✓ CAN termination can be activated through solder jumpers
- ✓ Extended temperature range -40 to +85 °C



GET MORE INFORMATION
ABOUT THE PCAN-USB XL HERE



YOU START WORKING
WITH CAN XL?

Read our technology article and learn everything about CAN XL.

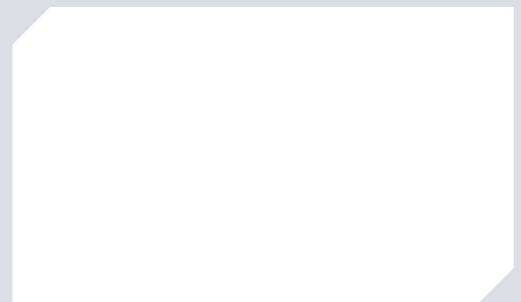


#1 CHOICE FOR ENGINEERS

PEAK – Contact

For other branch offices and distributors,
see our website:

www.peak-system.com/contact



GET MORE INFORMATION ON WWW.PEAK-SYSTEM.COM/EXPLORER7

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