



PC interfaces, infrastructure  
components, analyzing tools  
and more



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## #1 Choice for Engineers

### YOUR PARTNER FOR VEHICLE, INDUSTRIAL AND MEDICAL COMMUNICATION

*HMS Networks' Vehicle Communication division enables developers, system integrators, and OEMs to manage communication in complex systems across development, testing, production, and in the field.*

*With our brands PEAK, Ixxat, and owasys, we provide solutions that make data accessible, bridge networks, analyze traffic, and support validation, diagnostics, and operation.*

*With more than 30 years of experience in the automotive and medical industry as well as in industrial automation, our engineers know your needs.*



### FROM CONNECTION TO CONTROL – WE COVER IT

With hundreds of devices, interfaces, form factors and technologies, the VC portfolio serves highly customized needs. What they all have in common is to solve the four major tasks of ICT (Industrial Communication Technology).



#### Connect

Easy network access for PC-based or embedded systems as well as IO signals.



#### Communicate

Enable customized network structures, couple different bus systems and implement galvanic protection.



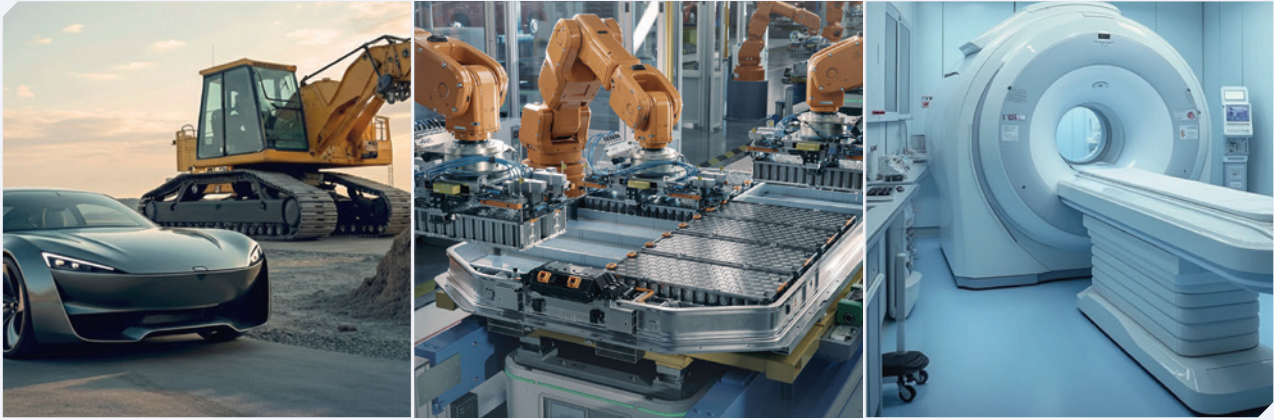
#### Comprehend

Make data and network traffic understandable with our software tools and platform solutions.



#### Control

Act on the system, either PC-based or autonomous with our testing solutions and performant remote assets.



# Our Solution Offering

*We support customers make communication reliable and manageable in their products – whether it is a medical device, a vehicle platform, or an industrial machine.*



## DATA ACCESS & ANALYTICS

Connect tools and PCs to capture traffic, interpret signals, analyze data and perform diagnostics.



## EMBEDDED CONNECTIVITY

Integrate communication into PCs or embedded devices for control, configuration and visualization.



## NETWORK INFRASTRUCTURE

Infrastructure components for increasing system reliability, protection through galvanic isolation, and system segmentation.



## VEHICLE TESTING & PRODUCTION

Simulation of devices and automated test workflows during development and production.



## VEHICLE CONTROL & REMOTE DIAGNOSTICS

Field ready platforms and gateways for control, remote service and maintenance.

# Data Access & Analytics



Connect your tools and PCs to CAN/CAN FD networks to capture communication, turn frames into readable signals, and make system behavior transparent. This category supports everything from quick troubleshooting

to structured analysis – including recording, replaying, and visualizing key parameters so engineering teams can understand what the vehicle or machine is doing and why.

## EXTERNAL INTERFACES

PEAK's external USB interfaces provide a fast, portable way to connect a PC to CAN CC, CAN FD, CAN XL and LIN, covering everything from quick service access up to multi-channel, professional test setups.

### COMMON FEATURES ACROSS THE EXTERNAL USB INTERFACES:

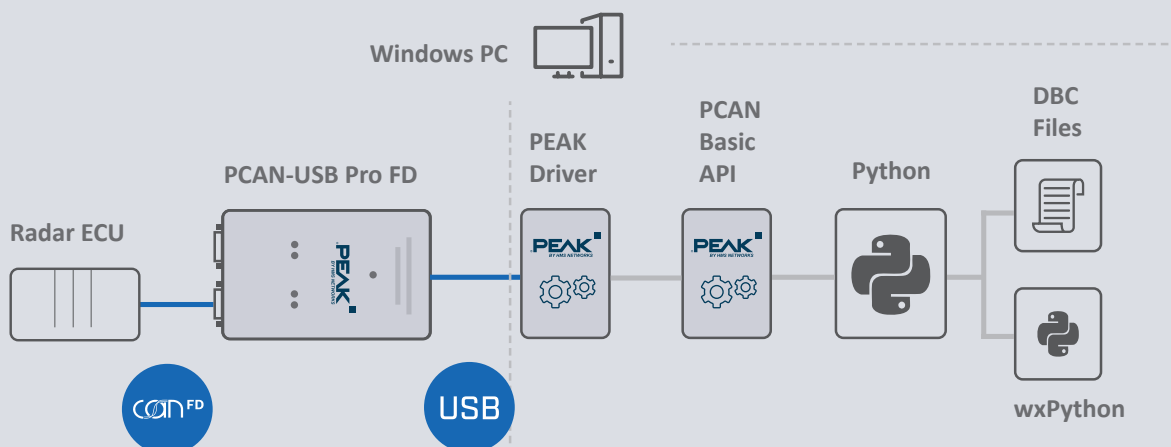
- ✓ **One consistent driver/tool stack** for Windows and Linux, plus monitoring software and programming API
  - For CAN, CAN FD & CAN XL: PCAN-View + PCAN-Basic
  - For LIN: PLIN-View Pro + PLIN-API

- ✓ **Standardized bus connectors**, typically D-Sub 9 (CiA 106) for CAN/LIN; rugged variants can offer alternative connectors (e.g., M12 on PCAN-USB X6).
- ✓ **Industrial-ready options**, including extended temperature range (-40 to +85 °C) and galvanic isolation variants (up to 500 V, model-dependent) for robust use in labs, vehicles, and harsh environments.

## EXEMPLARY APPLICATION

Using the PEAK PCAN-USB Pro FD, the supplier connects the radar ECU to a Windows test PC via USB for flexible HiL testing. CAN FD/LIN communication feeds simulated driving maneuvers,

while PCAN-Basic enables automated Python test sequences – scaling validation, cutting costs, and speeding development.



More Info:





| Product                     | PCAN-USB                   | PCAN-USB FD                            | PCAN-USB Pro FD                                       | PCAN-USB X6                               | PCAN-USB XL                                                  | PLIN-USB                |
|-----------------------------|----------------------------|----------------------------------------|-------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------|-------------------------|
| Articles                    | IPEH-002021<br>IPEH-002022 | IPEH-004022<br>IPEH-004023             | IPEH-004061                                           | IPEH-004062<br>IPEH-004063<br>IPEH-004064 | IPEH-005022                                                  | IPEH-004052             |
| CAN CC                      | •                          | •                                      | •                                                     | •                                         | •                                                            | -                       |
| CAN FD                      | -                          | •                                      | •                                                     | •                                         | •                                                            | -                       |
| CAN XL                      | -                          | -                                      | -                                                     | -                                         | •                                                            | -                       |
| LIN                         | -                          | -                                      | •                                                     | -                                         | -                                                            | •                       |
| Channels                    | 1                          | 1                                      | 2                                                     | 6                                         | 1                                                            | 1                       |
| Galvanic isolation          | Optional<br>500 V          | 500 V                                  | 500 V                                                 | Optional<br>300 V                         | 500 V                                                        | 500 V                   |
| Housing                     | Compact plastic housing    | Compact plastic housing                | Robust Aluminium Housing                              | Aluminium profile casing                  | Compact plastic housing                                      | Compact plastic housing |
| Connector type              | D-Sub9                     | D-Sub9                                 | D-Sub9                                                | D-Sub9 or M12                             | D-Sub9                                                       | D-Sub9                  |
| USB-Plug form               | USB-A                      | USB-A or USB-C                         | USB-A                                                 | USB-A                                     | USB-A                                                        | USB-A                   |
| Technical Specifications    |                            |                                        |                                                       |                                           |                                                              |                         |
| Timestamp Resolution        | 42 µs                      | 1 µs                                   | 1 µs                                                  | 1 µs                                      | 1 µs                                                         |                         |
| CAN Transceiver             | NXP PCA82C251              | NXP TJA1044GT                          | NXP TJA1044GT                                         | NXP TJA1044GT                             | TI TCAN6062V                                                 | -                       |
| LIN Transceiver             | -                          | -                                      | NXP TJA1028                                           | -                                         | -                                                            | TJA1028T or TLIN1028D   |
| CAN Controller              | SJA1000                    | FPGA                                   | FPGA                                                  | FPGA                                      | FPGA                                                         | -                       |
| Transmission Rates (kbit/s) | CAN<br>5–1,000             | CAN<br>25–1,000<br>CAN FD<br>25–12,000 | CAN<br>25–1,000<br>CAN FD<br>25–12,000<br>LIN<br>1–20 | CAN<br>25–1,000<br>CAN FD<br>25–12,000    | CAN<br>20–1,000<br>CAN FD<br>20–8,000<br>CAN XL<br>20–20,000 | LIN<br>1–20             |
| Operating Temperature       | -40 to +85 °C              | -40 to +85 °C                          | -40 to +85 °C                                         | -40 to +85 °C                             | -40 to +85 °C                                                | -40 to +85 °C           |
| Included software and tools |                            |                                        |                                                       |                                           |                                                              |                         |
| Windows Driver              | •                          | •                                      | •                                                     | •                                         | •                                                            | •                       |
| Linux Driver                | •                          | •                                      | •                                                     | •                                         | •                                                            | •                       |
| PCAN-Basic API              | •                          | •                                      | •                                                     | •                                         | •                                                            | -                       |
| PLIN-API                    | -                          | -                                      | •                                                     | -                                         | -                                                            | •                       |
| PCAN-View                   | •                          | •                                      | •                                                     | •                                         | •                                                            | -                       |
| PLIN-View Pro               | -                          | -                                      | •                                                     | -                                         | -                                                            | •                       |
| PEAK-Flash                  | •                          | •                                      | •                                                     | •                                         | •                                                            | •                       |

More Info &  
Webshop





## SOFTWARE

### PCAN-EXPLORER 7

PCAN-Explorer 7 is a professional Windows tool to monitor and interpret, analyze and record communication data. It is not limited to passive observation—manual or periodic transmission of messages (and transmit lists) enables direct influence for control and simulation tasks.

#### KEY FEATURES

- ✓ **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**—data interpretation via Symbol files turns hexadecimal payload into an understandable format, signal monitoring via Watch window.
- ✓ **Automation and extensibility**—macros/VBScript (object model access) and add-ins (e.g., Plotter, Instruments Panel, CANdb import, J1939 support).

## WHAT'S NEW IN PCAN-EXPLORER 7:

- ✓

**CAN XL support**, aligned with ISO 11898-1:2024.
- ✓

**Data-change highlighting** – quickly spot changed bytes/signals
- ✓

**Multiple Symbol files per connection** – add definitions without merging everything into one database file.
- ✓

**Improved performance** through a 64-bit foundation and separate engines for communication and UI.
- ✓

**Python scripting** to automate recurring tasks via the full object model.

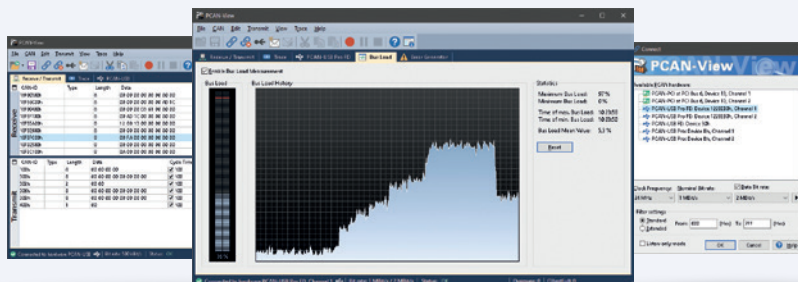
 **More Info and Webshop:**



## PCAN-VIEW

PCAN-View is the standard CAN monitor for Windows to view, transmit, and record CAN/CAN FD traffic.

It is included with every PCAN PC hardware product and comes as part of the device driver setup.



 **More Info:**



## DIAGNOSTICS

PCAN Diagnostics Devices are handheld tools for quickly assessing CAN/CAN FD networks in the field – from basic “is the bus healthy?” checks to deeper protocol and physical-layer troubleshooting.

Depending on the model, you can auto-detect bit rates, measure bus load and termination, and inspect voltage levels to localize wiring, topology, or transceiver issues.

For more advanced analysis, selected devices add two-channel oscilloscope capability to visualize CAN-High/CAN-Low and even decode frames from the recorded signal to spot frame-level errors.



| Product                                           | PCAN-Diag 2                                                                      | PCAN-Diag FD                                                                     | PCAN-Minidiag FD                                   | PCAN-Minidisplay                                                                 |
|---------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------|
| Articles                                          | IPEH-002069-V2                                                                   | IPEH-003069                                                                      | IPEH-003070                                        | IPEH-002262                                                                      |
| Description                                       | Handheld CAN Bus Diagnostics Unit                                                | Mobile Diagnostic Device for CAN and CAN FD Buses                                | Compact Diagnostic Device for CAN and CAN FD Buses | Visualization and Recording of CAN Data                                          |
| CAN                                               | •                                                                                | •                                                                                | •                                                  | •                                                                                |
| CAN FD                                            | -                                                                                | •                                                                                | •                                                  | -                                                                                |
| Connector Type                                    | D-Sub 9                                                                          | D-Sub 9                                                                          | D-Sub 9                                            |                                                                                  |
| Measurements                                      | 103 x 58 x 212 mm                                                                | 110 x 47 x 206 mm                                                                | 119 x 65 x 37 mm                                   | 80 x 62 x 18,3 mm                                                                |
| Weight (w/o batteries)                            | 400 g                                                                            | 680 g                                                                            | 130 g                                              | 55 g                                                                             |
| Operating Temperature                             | 0 to +50 °C                                                                      | 0 to +50 °C                                                                      | -10 to +50 °C                                      | -20 to +70 °C                                                                    |
| Visualization/Oscilloscope                        |                                                                                  |                                                                                  |                                                    |                                                                                  |
| Display Type                                      | TFT                                                                              | TFT                                                                              | OLED (RGB)                                         | TFT                                                                              |
| Display Resolution                                | 320 x 240 px                                                                     | 480 x 800 px                                                                     | 128 x 128 px                                       | 320 x 240 px                                                                     |
| Max. Sampling Rate                                | 20 MHz                                                                           | 100 MHz                                                                          | -                                                  | -                                                                                |
| Max. Sample buffer                                | 64,000                                                                           | 1,000,000                                                                        | -                                                  | -                                                                                |
| Storage / Logging                                 |                                                                                  |                                                                                  |                                                    |                                                                                  |
| Internal Memory                                   | 1 GB                                                                             | 4 GB                                                                             | -                                                  | None<br>Max. 32 GB MicroSD                                                       |
| Recording Format                                  | Proprietary binary format (*.btr)                                                | Proprietary binary trace (*.btrc)                                                | -                                                  | Proprietary binary format (*.btr)                                                |
| Conversion options with the supplied Windows tool | PCAN-Trace (*.trc)<br>Vector ASC trace (*.asc)<br>comma-separated values (*.csv) | PCAN-Trace (*.trc)<br>Vector ASC trace (*.asc)<br>comma-separated values (*.csv) | -                                                  | PCAN-Trace (*.trc)<br>Vector ASC trace (*.asc)<br>comma-separated values (*.csv) |

More Info &  
Webshop



# Embedded Connectivity



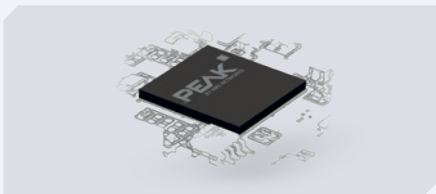
*We bring CAN/CAN FD communication directly into your embedded or PC-based device – from first prototypes to series designs. Our solutions help you build*

*compact, reliable devices with integrated connectivity and (where needed) I/O functionality.*

## CHIP SOLUTIONS

Our embedded solutions help you integrate CAN/CAN FD connectivity into your own hardware—either via PCI Express or USB. All options are designed to shorten time-to-integration with documented reference designs and licensed driver/API packages.

- ✓ FPGA implementation of the CAN FD controller
- ✓ Complies with CAN specifications 2.0 A/B and FD
- ✓ CAN FD support for ISO and Non-ISO standards switchable
- ✓ Measuring of bus load including error frames and overload frames on physical bus
- ✓ Induced error generation for incoming and outgoing CAN messages



### PCAN-CHIP PCIE FD

Based on an FPGA, up to four CAN channels can be implemented via the PCI Express bus using the chip solution PCAN-Chip PCIe FD. With the license from PEAK, the FPGA can be programmed via an image with the corresponding functionality.

- ✓ CAN bus connection for PCI Express x1 with bit rates up to 2.5 Gbit/s
- ✓ PCIe data transfer via bus master DMA
- ✓ DMA memory access operations with 32- and 64-bit addresses
- ✓ Fully compatible with the PCI Express device drivers and software from PEAK-System



More Info:



### PCAN-CHIP USB

For custom hardware designs a CAN connection can be implemented with the Stamp module, which communicates via USB 2.0 with the hardware. The integrated CAN controller supports the protocols CAN 2.0 A/B as well as CAN FD. The physical CAN connection is determined by external wiring. The Stamp module with its single-sided mounting and plated half-holes is suitable for automatic assembly.

- ✓ Connections for 2 status LEDs
- ✓ 5 digital inputs/outputs and 1 analog input (access via PCAN-Basic API)
- ✓ Power supply 3.3 V DC
- ✓ Firmware update via USB
- ✓ Dimensions: 25 x 20 mm
- ✓ Extended operating temperature range from -40 to +85 °C (-40 to +185 °F)



More Info:



## INTERNAL INTERFACES

PEAK's internal PC interfaces provide a clean, integrated way to add CAN – and, depending on the model – CAN FD to PCs and embedded platforms, while keeping a consistent driver/toolchain across form factors.

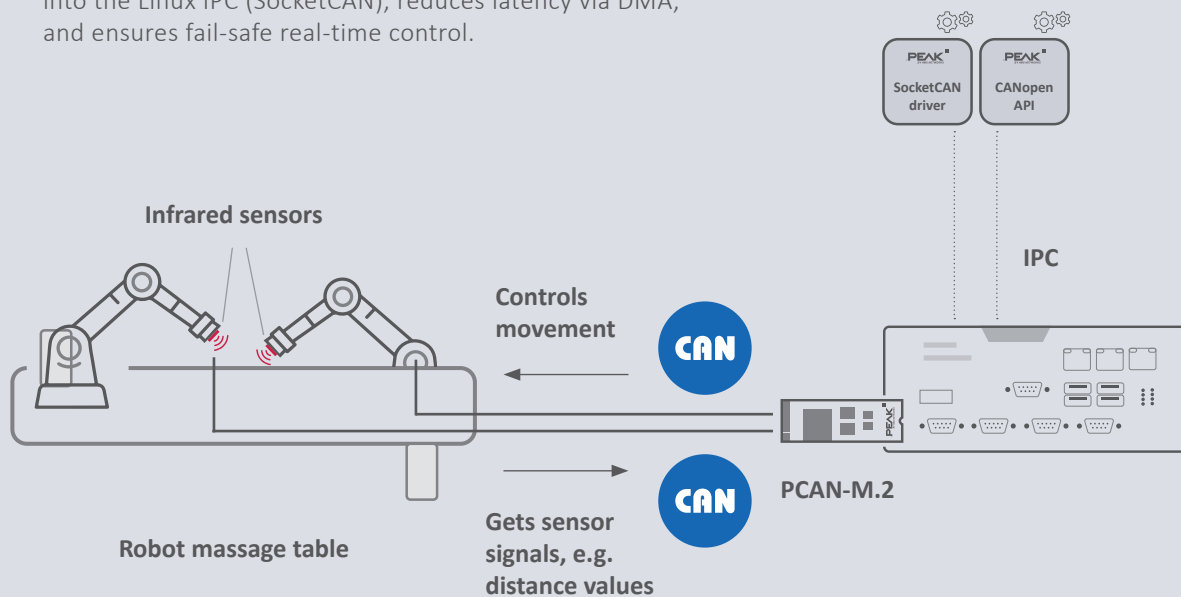
### COMMON FEATURES (ACROSS THE PEAK INTERNAL INTERFACE FAMILIES)

- ✓ Consistent software package: device drivers for Windows 11/10 and Linux, plus PCAN-View (Windows) and the PCAN-Basic API for application development.
- ✓ Standard CAN connection concept using D-Sub 9 (CiA 106) - either directly on the bracket or via connection cable (depending on form factor).
- ✓ Automotive-ready software add-ons available: "Programming interfaces for standardized protocols from the automotive sector" are included in the delivered package across these interface families.



### EXEMPLARY APPLICATION

The PEAK PCAN-M.2 enables fast, deterministic CAN/CAN FD communication between robot arms, sensors, and motor controllers in massage robots. As a compact M.2 card, it can be integrated directly into the Linux IPC (SocketCAN), reduces latency via DMA, and ensures fail-safe real-time control.



[More Info:](#)





| Product                        | PCAN-PCI                                                                          | PCAN-PCI Express                                 | PCAN-PCI Express FD                                                     | PCAN-MiniPCIe                                                                                                   | PCAN-MiniPCIe FD                                                                                            | PCAN-M.2                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Articles                       | IPEH-002064<br>IPEH-002065<br>IPEH-002066<br>IPEH-002067                          | IPEH-003026<br>IPEH-003027                       | IPEH-004026<br>IPEH-004027<br>IPEH-004040                               | IPEH-003048<br>IPEH-003049                                                                                      | IPEH-004045<br>IPEH-004046<br>IPEH-004047                                                                   | IPEH-004083<br>IPEH-004084<br>IPEH-004085                                                            |
| CAN                            | •                                                                                 | •                                                | •                                                                       | •                                                                                                               | •                                                                                                           | •                                                                                                    |
| CAN FD                         | -                                                                                 | -                                                | •                                                                       | -                                                                                                               | •                                                                                                           | •                                                                                                    |
| Channels                       | 1/2                                                                               | 1/2                                              | 1/2/4                                                                   | 1/2                                                                                                             | 1/2/4                                                                                                       | 1/2/4                                                                                                |
| Electrical isolation           | Optional<br>500 V                                                                 | 500 V                                            | 500 V                                                                   | 300 V                                                                                                           | 300 V                                                                                                       | 300 V                                                                                                |
| Socket                         | PCI bus (Rev. 2.2),<br>PC98, 32-bit bus<br>width,<br>for 3.3 V and 5 V<br>systems | PCI Express<br>x1 (1 Lane),<br>Specification 1.1 | PCI Express x1 (1<br>Lane); electro-<br>mechanical<br>specification 2.x | PCI Express<br>Mini slot,<br>52-pin; electro-<br>mechanical<br>specifications 1.1<br>and 1.2;<br>uses PCIe lane | PCI Express Mini<br>slot, 52-pin;<br>electro-mechanical<br>specifications 1.1<br>and 1.2;<br>uses PCIe lane | M.2 2280(60),<br>B+M key;<br>59-pin; electro-<br>mechanical<br>specifications 1.1;<br>uses PCIe lane |
| Connector type                 | D-Sub9                                                                            | D-Sub9                                           | D-Sub9                                                                  | D-Sub9 via<br>connector cable                                                                                   | D-Sub9 via connector<br>cable                                                                               | D-Sub9 via<br>connector cable                                                                        |
| Technical Specifications       |                                                                                   |                                                  |                                                                         |                                                                                                                 |                                                                                                             |                                                                                                      |
| Timestamp<br>Resolution        | 1 $\mu$ s                                                                         | 1 $\mu$ s                                        | 1 $\mu$ s                                                               | 1 $\mu$ s                                                                                                       | 1 $\mu$ s                                                                                                   | 1 $\mu$ s                                                                                            |
| CAN Transceiver                | NXP<br>PCA82C251                                                                  | NXP PCA82C251                                    | NXP TJA1044GT                                                           | NXP PCA82C251                                                                                                   | NXP TJA1044GT                                                                                               | NXP TJA1044GT                                                                                        |
| CAN Controller                 | NXP<br>SJA1000                                                                    | FPGA                                             | FPGA                                                                    | FPGA                                                                                                            | FPGA                                                                                                        | FPGA                                                                                                 |
| Transmission<br>Rates (kbit/s) | CAN<br>5 – 1,000                                                                  | CAN<br>5 – 1,000                                 | CAN<br>25 – 1,000<br>CAN FD<br>25 – 12,000                              | CAN<br>5 – 1,000                                                                                                | CAN<br>25 – 1,000<br>CAN FD<br>25 – 12,000                                                                  | CAN<br>25 – 1,000<br>CAN FD<br>25 – 12,000                                                           |
| Temperature Range              | -40 to +85 °C                                                                     | -40 to +85 °C                                    | -40 to +85 °C                                                           | -40- +85°C                                                                                                      | -40 to +85 °C                                                                                               | -40 to +85 °C                                                                                        |
| Included software and tools    |                                                                                   |                                                  |                                                                         |                                                                                                                 |                                                                                                             |                                                                                                      |
| Windows Driver                 | •                                                                                 | •                                                | •                                                                       | •                                                                                                               | •                                                                                                           | •                                                                                                    |
| Linux Driver                   | •                                                                                 | •                                                | •                                                                       | •                                                                                                               | •                                                                                                           | •                                                                                                    |
| PCAN-Basic API                 | •                                                                                 | •                                                | •                                                                       | •                                                                                                               | •                                                                                                           | •                                                                                                    |
| PCAN-View                      | •                                                                                 | •                                                | •                                                                       | •                                                                                                               | •                                                                                                           | •                                                                                                    |
| Peak-Flash                     | •                                                                                 | •                                                | •                                                                       | •                                                                                                               | •                                                                                                           | •                                                                                                    |

More Info &  
Webshop





 More Info:



## SOFTWARE

### PCAN-BASIC

PCAN-Basic is PEAK's cross-platform API for building applications that connect to CAN CC, CAN FD, and CAN XL networks via PCAN hardware.

It provides a stable programming interface so you can develop once and deploy across common Windows and Linux environments.

#### KEY CAPABILITIES

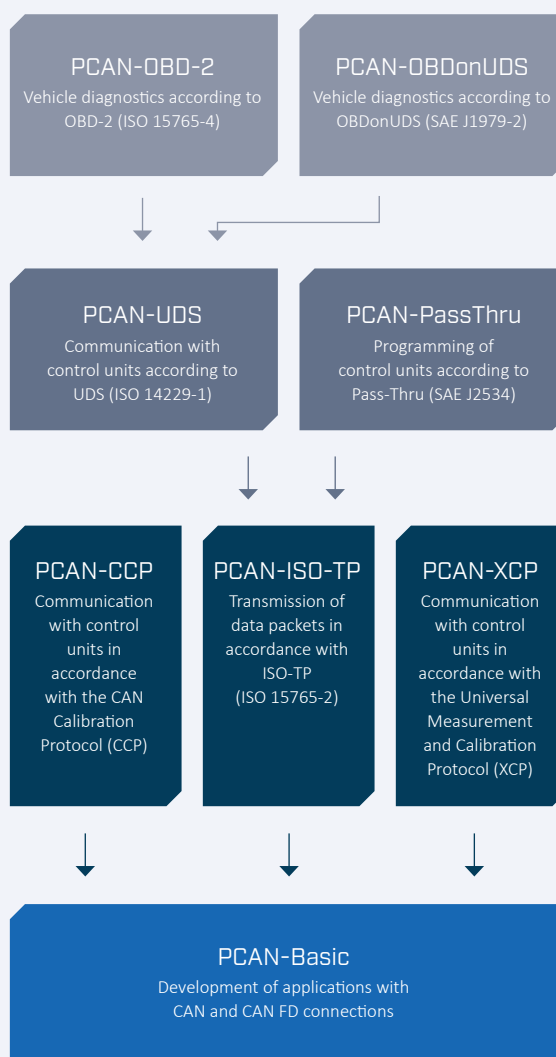
- ✓ Support for CAN specifications CAN CC (classic CAN 2.0), CAN FD, and CAN XL
- ✓ (ISO 11898-1 2024) on Windows (x86/x64/ARM64) and Linux.
- ✓ One API for many interfaces: use different PEAK PCAN hardware types with a consistent software layer.
- ✓ Multi-channel ready: operate multiple PCAN interfaces and multiple channels in parallel (hardware-dependent).
- ✓ Precise time handling: high-resolution message timestamps (depending on the PCAN interface).
- ✓ Robust application workflow: support for receive filters, status/error handling, event-driven reception, and debugging support.

#### DEVELOPER-FRIENDLY INTEGRATION

- ✓ Delivered as device driver and interface library (DLL/SO) plus examples, headers, and documentation.
- ✓ Broad language ecosystem (typical): C/C++, C#/.NET, VB.NET, Delphi, Java, Python (platform-dependent).
- ✓ Thread-safe API design supports use in multi-threaded applications.

#### FITS WELL WITH HIGHER-LEVEL AUTOMOTIVE APIS

If you need standardized automotive diagnostics and calibration stacks on top, PCAN-Basic acts as the foundation for protocol-specific interfaces (e.g. UDS / ISO-TP / PassThru / CCP / XCP / OBD-related APIs), depending on your toolchain and licensing.



## PCAN-DEVELOPER 5

PCAN-Developer is PEAK's professional Windows development package for building powerful applications with CAN CC, CAN FD, CAN XL and CAN FD light support. It provides the PCAN-API as interface DLLs (x86/x64/ARM64) plus headers, examples, and tools—enabling fast integration of PCAN hardware into your own software.

### WHY PCAN-DEVELOPER

Unlike PCAN-Basic, PCAN-Developer uses a client-based concept: applications act as “clients” connected to logical nets, which can represent a physical CAN channel, a simulated CAN bus between Windows applications, or a gateway setup. This makes it easier to build multi-application and virtual CAN workflows without complex plumbing.

### KEY CAPABILITIES

- ✓ CAN CC, CAN FD, CAN XL & CAN FD light support
- ✓ Multi-channel / multi-interface operation (scales with the hardware type; supports high channel counts per hardware family)
- ✓ Client/Net architecture for flexible setups: multiple clients per net, multiple nets per client, and simulated CAN communication between Windows applications
- ✓ PCAN API Guide

 **More Info:**



| Features                                                          | PCAN-Basic<br>PCAN-Basic API | PCAN-Developer<br>PCAN-API                                              |
|-------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------|
| Supported buses                                                   | CAN CC; CAN FD;<br>CAN XL*   | CAN CC, CAN FD, CAN XL*, CAN FD light**                                 |
| Max. channels per hardware                                        | 16                           | 127                                                                     |
| Max. simultaneous number of applications per physical CAN channel | 1                            | 127                                                                     |
| Hardware parameter access                                         | Specific parameters          | All parameters                                                          |
| Simulated CAN communication between Applications                  | -                            | •                                                                       |
| Generation of CAN error frames                                    | -                            | •                                                                       |
| Hotline developer support                                         | -                            | •                                                                       |
| Supplied Software                                                 | PCAN-View                    | PCAN-View, PCAN-Nets Configuration, PCAN-Status Display, PCAN-API Guide |
| License Model                                                     | Free License                 | Redistributable License                                                 |

\* new feature  
\*\* new feature exclusive to PCAN-Developer

### API/DRIVER SUPPORT

■ Free with Hardware ■ Paid Advanced Tool

|                                |                                                                                              |                                                                  |                                                 |                                        |
|--------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|----------------------------------------|
| Layer 6: Engineering Tools     | PCAN-View                                                                                    | PCAN-Explorer                                                    |                                                 | 3 <sup>rd</sup> Party implementations: |
| Layer 5: Configuration & Tools | PCAN-Symbol Editor<br>CAN FD Frame Analyzer<br>PEAK-Trace Splitter<br>PEAK-Converter         | PCAN-Nets Configuration<br>PCAN-Status Display<br>PCAN-API Guide |                                                 | MathWorks®<br>DASYLab<br>CANopen       |
| Layer 4: Protocol APIs         | PCAN-CCP, PCAN-ISO-TP,<br>PCAN-XCP, PCAN-UDS<br>PCAN-PassThru, PCAN-OBDon2,<br>PCAN-OBDonUDS |                                                                  |                                                 |                                        |
| Layer 3: Core APIs             | PCAN-Basic                                                                                   | PCAN-Developer                                                   | PCAN-Basic                                      |                                        |
| Layer 2: Drivers/Runtime       | Win 11 (x64/ARM64) & 10(X64)                                                                 |                                                                  | Included in Linux-Mainline-Kernel via SocketCAN | MacCAN                                 |
| Layer 1: Hardware Connection   |                                                                                              |                                                                  |                                                 |                                        |
| Layer 0: Supported Protocols   |                                                                                              |                                                                  |                                                 |                                        |

CAN

CAN<sup>FD</sup>CAN<sup>XL</sup>

## EMBEDDED I/Os



### PCAN-MICROMOD FD

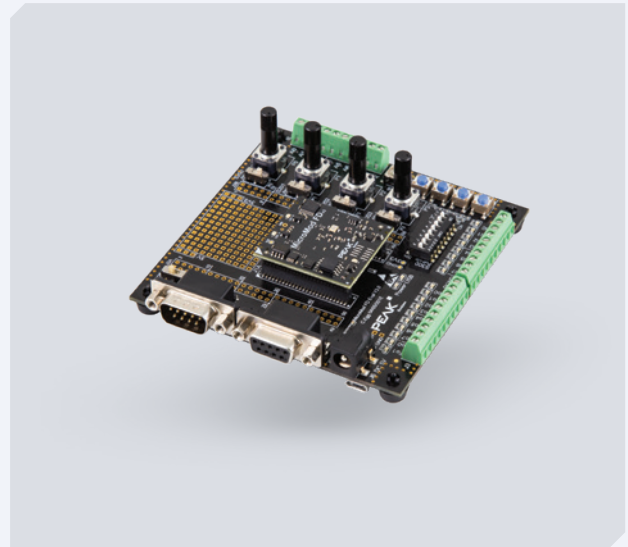
PCAN-MicroMod FD is a compact plug-in board that combines a CAN/CAN FD interface with multiple analog and digital I/Os, linked by an onboard micro-controller – a simple way to add I/O and CAN connectivity to custom electronics.

It is configured with the included Windows software (I/O mapping plus function blocks).

The configuration is transferred via CAN, after which the module operates as an independent CAN node (multiple modules can be configured on one bus).

- ✓ HS CAN / CAN FD (CAN 2.0A/B + FD): CAN FD data bit rates (64 bytes max.) 20 kbit/s to 10 Mbit/s; CAN 20 kbit/s to 1 Mbit/s
- ✓ I/O set: 8 analog inputs (0-3 V, 12-bit, 1 kHz), 8 digital inputs, 8 digital outputs, 2 frequency outputs
- ✓ Individual configuration of up to 16 devices per CAN network (based on module ID)
- ✓ Form factor: 33 x 36 mm, supply 3.3 V, operating temperature -40 to +85 °C
- ✓ Integration detail: 2x 50-pin double headers at 1.27 mm pitch; optional adapter available for 2.54 mm pitch carrier boards

 **More Info:**



### PCAN-MICROMOD FD EVALUATION BOARD

PCAN-MicroMod FD Evaluation Board is a universal evaluation platform for the PCAN-MicroMod FD plug-in module. It supports the conception and development of custom circuits with CAN/CAN FD connection and I/O functionality, and it can also be used for training.

Pick-offs, screw terminals, switches, and potentiometers provide direct access to the module's resources for quick configuration checks and test setups.

 **More Info:**



# Network Infrastructure



We create stable, scalable communication networks with infrastructure components that protect by adding a galvanic isolation, and remove restrictions of the CAN/CAN FD bus topology. Typical benefits include

improved robustness in harsh environments, reduced susceptibility to disturbances, easier network segmentation, and reliable communication across complex installations and longer distances.

## CAN ROUTERS/BRIDGES

Routers link two or more CAN networks and control how messages pass between segments. They are used to separate bus sections, reduce load, and improve robustness by forwarding only the traffic that is needed – or by applying filtering, mapping, or manipulation rules.

Depending on the router type, they can also support CAN FD migration (CAN ↔ CAN FD conversion) and provide integrated functions for logging, monitoring, I/O-based control, and test bench data flow management.



| Product                     | PCAN-Router                               | PCAN-Router DR             | PCAN-Router FD                                 | PCAN-Router Pro                    | PCAN-Router Pro FD                             |
|-----------------------------|-------------------------------------------|----------------------------|------------------------------------------------|------------------------------------|------------------------------------------------|
| Articles                    | IPEH-002210<br>IPEH-002211                | IPEH-002213                | IPEH-002214<br>IPEH-002215                     | IPEH-002212                        | IPEH-002220<br>IPEH-002222                     |
| CAN CC                      | •                                         | •                          | •                                              | •                                  | •                                              |
| CAN FD                      | -                                         | -                          | •                                              | -                                  | •                                              |
| RS232                       | •                                         | •                          | •                                              | -                                  | -                                              |
| Channels                    | 2                                         | 2                          | 2                                              | 4                                  | 6                                              |
| Galvanic Isolation          | 500 V                                     | 1x 500 V<br>1x 5 kV        | No                                             | Optional –<br>Upon request         | Optional –<br>Upon request                     |
| Connector Type              | D-Sub 9 or<br>Phoenix<br>connector 10-pin | Phoenix<br>connector 4-pin | D-Sub 9 or<br>Phoenix<br>connector 10-pin      | D-Sub 9                            | D-Sub 9                                        |
| CAN Logging                 | -                                         | -                          | -                                              | •                                  | •                                              |
| Digital I/Os                | 1 Input                                   | -                          | -                                              | -                                  | Up to 4 I/Os                                   |
| Analog I/Os                 | -                                         | -                          | -                                              | -                                  | 1 Input                                        |
| Ethernet                    | -                                         | -                          | -                                              | -                                  | Optional                                       |
| Technical Specifications    |                                           |                            |                                                |                                    |                                                |
| CAN Transceiver             | NXP<br>TJA1040T                           | NXP<br>PCA82C251           | NXP<br>TJA1043                                 | NXP TJA1041<br>Others upon request | NXP<br>TJA1043                                 |
| Transmission Rates (kbit/s) | CAN<br>40 – 1,000                         | CAN<br>5 – 1,000           | CAN<br>40 – 1,000<br><br>CAN FD<br>40 – 12,000 | CAN<br>40 – 1,000                  | CAN<br>40 – 1,000<br><br>CAN FD<br>40 – 12,000 |
| Operating Temperature       | -40 to +85 °C                             | -40 to +85 °C              | -40 to +85 °C                                  | -40 to +85 °C                      | -40 to +85 °C                                  |

More Info &  
Webshop



## CAN GATEWAYS

These gateways extend CAN/CAN FD communication – enabling access or bridging by using other bus technologies. CAN traffic can be easily transported over Ethernet using TCP/IP/UDP encapsulation or translating between different bus technologies (e.g. CAN ↔ LIN, RS-232 ↔ CAN FD).



| Product                     | PCAN-Ethernet Gateway DR                      | PCAN-Ethernet Gateway FD DR                      | PCAN-LIN                                                        | PCAN-RS-232-FD                                                          |
|-----------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------|
| Articles                    | IPEH-004010                                   | IPEH-004012                                      | IPEH-002025<br>IPEH-002029                                      | IPEH-003120                                                             |
| Description                 | CAN to LAN Gateway in DIN Rail Plastic Casing | CAN FD to LAN Gateway in DIN Rail Plastic Casing | Gateway for LIN, CAN, and RS-232                                | Programmable Converter for RS-232 to CAN and CAN FD                     |
| CAN                         | •                                             | •                                                | •                                                               | •                                                                       |
| CAN FD                      | -                                             | •                                                | -                                                               | •                                                                       |
| LIN                         | -                                             | -                                                | •                                                               | -                                                                       |
| RS232                       | •                                             | •                                                | •                                                               | •                                                                       |
| Channels                    | 2                                             | 2                                                | 1                                                               | 1                                                                       |
| Galvanic Isolation          | 500 V                                         | 500 V                                            | 1,000 V                                                         | -                                                                       |
| Connector Type              | Phoenix connector 4-pin                       | Phoenix connector 4-pin                          | D-Sub9                                                          | Phoenix connector 10-pin                                                |
| Digital I/O                 | -                                             | -                                                | -                                                               | 2 I/Os                                                                  |
| Ethernet Connection         | 10/100 Mbit/s BASE-T                          | 10/100/1000 Mbit/s BASE-T                        | -                                                               | -                                                                       |
| CAN Transceiver             | NXP PCA82C251                                 | Microchip MCP2558FD                              | Analog Devices MAX3057                                          | NXP TJA1043                                                             |
| LIN Transceiver             | -                                             | -                                                | Analog Devices MAX13020                                         | -                                                                       |
| RS232 Transceiver           | -                                             | -                                                | -                                                               | TI TRSF3221EIPWR                                                        |
| Transmission Rates (kbit/s) | CAN<br>5 – 1,000                              | CAN<br>20 – 1,000<br>CAN FD<br>20 – 8,000        | CAN<br>Max 1,000<br><br>LIN<br>Max. 20<br><br>RS232<br>Max. 115 | CAN<br>40 – 1,000<br><br>CAN FD<br>40 – 10,000<br><br>RS232<br>Max. 460 |
| Temperature Range           | -40 to +85 °C                                 | -40 to +85 °C                                    | -40 to +85 °C                                                   | -40 to +85 °C                                                           |

More Info &  
Webshop



## COUPLERS & CONVERTERS

Couplers and converters are infrastructure components used to segment, protect, and extend CAN/CAN FD networks. They help improve robustness by adding galvanic isolation, reducing susceptibility to disturbances, and enabling alternative transmission media

(e.g. fiber optics) for challenging EMC environments or long distances. Typical use cases include decoupling network sections, enable drop-lines, preventing ground-loop issues, and maintaining reliable communication across complex installations.



### PCAN-REPEATER

PCAN-Repeater is a compact, DIN-rail CAN/CAN FD repeater designed to improve signal quality, enable flexible topologies, and protect equipment through high galvanic isolation – while keeping installation fast and error-resistant for industrial control cabinets.

- ✓ 2 independent CAN/CAN FD channels: data rate up to 8 Mbit/s
- ✓ 5 kV galvanic isolation between CAN channels and power supply for robust protection in harsh environments
- ✓ Installation-focused design: removable push-in connectors and externally switchable termination resistors (no need to open the housing)
- ✓ Clear handling: intuitive LED indicators and labeling; compact housing optimized for DIN-rail mounting in space-constrained cabinets

 **More Info:**



### PCAN-LWL

For use in explosion-proof areas or for EMC measurements, the PCAN-LWL can be used to replace a stretch of CAN network with a fiber-optic line. There are options for operation in High-speed CAN or Low-speed CAN systems. The modules are supplied with power externally. PCAN-LWL can be used in CAN FD buses with data bit rates up to 5 Mbit/s and nominal bit rates up to 500 kbit/s.

 **More Info:**



### PAE-MEDIA CONVERTER

The PAE-Media Converter is a robust, compact converter that supports both 100BASE-T1 and 1000BASE-T1 and converts them to 100BASE-TX and 1000BASE-T for quick, plug-and-play deployments without any software configuration. All settings are done via DIP switches (including selecting H-MTD or MATEnet), while multiple LEDs provide direct status feedback and troubleshooting on the device.

 **More Info:**



# Vehicle Testing & Production



Enable repeatable results in engineering and manufacturing with solutions for simulation, logging, gatewaying, and automated test workflows. This category sup-

ports validation on test benches, end-of-line tests, and production environments where consistent procedures, traceability, and efficient troubleshooting are essential.

## AUTOMOTIVE TESTING SOLUTIONS

Automotive testing gateways are standalone devices that connect multiple in-vehicle networks, handle IVN data with low latency (less than 300 µsec through gateway), and providing Gateway Logger restbus simulation,

MATLAB Simulink model execution and visualization all in parallel. They reduce PC load by running core functions on the device and provide flexible connectivity for test benches, lab setups, and in-vehicle validation.



| Product                       | PCAN-Router Pro FD                                                                             | Ixxat Mobilizer Standard 800                                             | Ixxat Mobilizer Pro 820 EtherCAT                                                         | Ixxat Mobilizer Pro 822 EtherCAT                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Articles                      | IPEH-002222                                                                                    | 1.01.0143.08000                                                          | 1.01.0143.08201                                                                          | 1.01.0143.08221                                                                          |
| Description                   | Programmable 6-Channel Router for CAN and CAN FD with I/O and Data Logger                      | Configurable 8-Channel CAN/CAN FD Gateway and Data Logger with Ethernet. | Multi-bus Automotive Gateway and Data Logger with CAN/CAN FD, Automotive Ethernet & I/O. | Multi-bus Automotive Gateway and Data Logger with CAN/CAN FD, Automotive Ethernet & I/O. |
| CAN / CAN FD                  | 6x CAN/CAN FD                                                                                  | 8x CAN/CAN FD                                                            | 8x CAN/CAN FD                                                                            | 8x CAN/CAN FD                                                                            |
| Automotive Ethernet (BASE-T1) | —                                                                                              | —                                                                        | 2x Automotive Ethernet 100/1000 BASE-T1                                                  | 2x Automotive Ethernet 100/1000 BASE-T1                                                  |
| Industrial Ethernet (BASE-T)  | Optional 1x 100BASE-TX                                                                         | 1x Ethernet 10/100/1000 BASE-TX                                          | 1x Ethernet 10/100/1000 BASE-TX                                                          | 1x Ethernet 10/100/1000 BASE-TX                                                          |
| EtherCAT                      | -                                                                                              | -                                                                        | •                                                                                        | •                                                                                        |
| LIN                           | —                                                                                              | •                                                                        | •                                                                                        | •                                                                                        |
| Other buses                   | —                                                                                              | —                                                                        | SENT, K-Line                                                                             | SENT, K-Line, FlexRay                                                                    |
| USB                           | 1x USB-C                                                                                       | 2x USB-A, 1x USB-C                                                       | 2x USB-A, 1x USB-C                                                                       | 2x USB-A, 1x USB-C                                                                       |
| Digital / analog I/O          | 4x digital I/O<br>1x analog input                                                              | 2x Digital I/O                                                           | 6x Digital I/O,<br>4x Analog I, 2x Analog O                                              | 6x Digital I/O,<br>4x Analog I, 2x Analog O, PWM output                                  |
| Storage                       | 16 GB internal<br>+ SD card slot                                                               | SDXC slot                                                                | SDXC slot                                                                                | SDXC slot                                                                                |
| Host System                   | 200 MHz<br>Cortex M7 Microcontroller                                                           | 1,8 GHz Quad-Core<br>Cortex-A53 Processor                                | 1,8 GHz Quad-Core<br>Cortex-A53 Processor                                                | 1,8 GHz Quad-Core<br>Cortex-A53 Processor                                                |
| Restbus Simulation            | -                                                                                              | Via ACT                                                                  | Via ACT                                                                                  | Via ACT                                                                                  |
| Configuration approach        | Custom firmware via GNU C/C++ dev package; configurable data logging available out of the box. | Advanced Configuration Tool (ACT)                                        | Advanced Configuration Tool (ACT)                                                        | Advanced Configuration Tool (ACT)                                                        |

More Info & Webshop

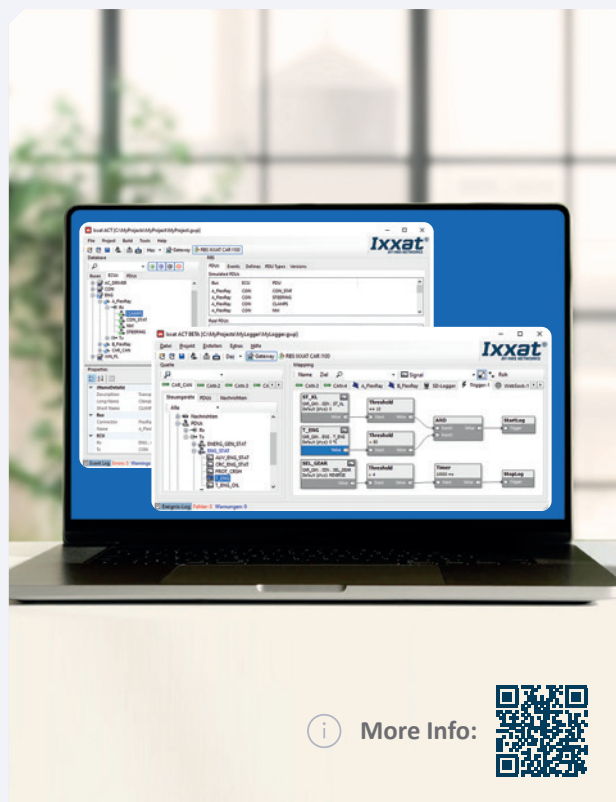


## SOFTWARE

### ADVANCED CONFIGURATION TOOL (ACT)

ACT is the central Windows 10/11 software environment to configure the Mobilizer devices via drag-and-drop. You create the configuration on the PC and then download it to the Mobilizer, where it runs standalone – a PC is only needed for setup.

- ✓ Gateway logic & protocol bridging (rule-based forwarding, filtering, mapping) across the Mobilizer's interfaces.
- ✓ Data logging projects with triggers and selective recording, plus convenient device management via the included IxAdmin tool.
- ✓ Restbus Simulation (RBS) setups (simulate missing ECUs / network behavior for test scenarios) – supported in ACT.
- ✓ Visualization (HTML5/web-based views) for quick live monitoring without building your own UI.



| Capability / module                        | ACT Freeware | ACT Lite | ACT Standard |
|--------------------------------------------|--------------|----------|--------------|
| IxAdmin                                    | •            | •        | •            |
| Gateway configuration                      | •            | •        | •            |
| Logger                                     | •            | •        | •            |
| Visualization                              | •            | •        | •            |
| C User Code integration                    | •            | •        | •            |
| Matlab/Simulink integration                | -            | •        | •            |
| EtherCAT support                           | •            | •        | •            |
| RBS, signal manipulation & error injection | -            | -        | •            |
| XCP                                        | -            | •        | •            |
| OPC UA                                     | -            | •        | •            |

### IXADMIN

IxAdmin is the device administration utility that comes with ACT. It is used for commissioning and maintaining Mobilizer devices – in particular to flash/update firmware, download and manage configurations, set IP/network parameters, and access log files.

# Vehicle Control & Remote Diagnostics

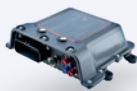


Improve serviceability and field readiness with rugged Open Linux gateways designed for vehicles and mobile machinery in demanding environments. Built on open, programmable platforms, the Owasys gateway family

enables remote monitoring, diagnostics, and data acquisition – with built-in cellular connectivity, GNSS, and vehicle bus interfaces ready for deployment out of the box.

## WIRELESS TELEMATICS GATEWAYS

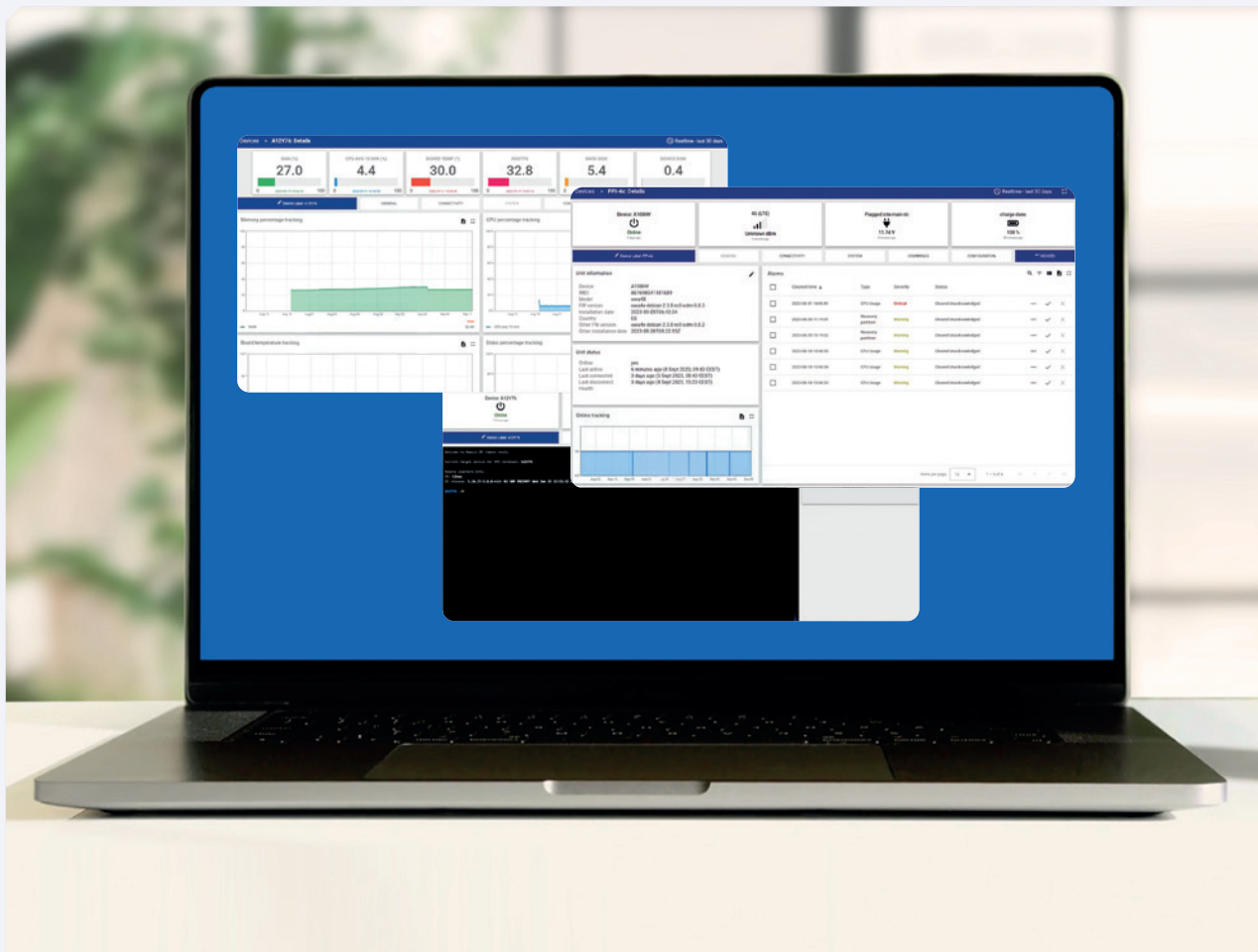
- ✓ Open Linux edge computing: build and deploy custom applications directly on the device; process and filter data locally before transmission to reduce bandwidth and latency.
- ✓ Vehicle connectivity built in: CAN and CAN FD interfaces across the range (up to 4x CAN FD on owa5X) for direct integration into vehicle networks – no additional gateway hardware required.
- ✓ Always-connected remote access: cellular connectivity options across the portfolio (LTE Cat 4 / Cat 1 / Cat 1 bis depending on model) for continuous remote diagnostics and fleet visibility.
- ✓ Field-ready ruggedness: hardware variants cover harsh IP67/IP6K9K environments as well as compact IP40 installations, with extended temperature ranges across the range.



| Product          | owa5X                                              | owa4X                                       | owa450                                         | owa347                                         | owa344                            |
|------------------|----------------------------------------------------|---------------------------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------|
| Positioning      | High-end rugged Open Linux gateway                 | Rugged general-purpose Open Linux gateway   | Cost-optimized Open Linux gateway (IP40)       | Compact rugged Open Linux gateway (IP67)       | Compact Open Linux gateway (IP40) |
| CPU / Linux      | i.MX8M Plus Quad A53; Debian/Yocto                 | Cortex-A8; Debian                           | Cortex-A8; Debian 10                           | Cortex-A7; Yocto                               | Cortex-A7; Yocto                  |
| Cellular         | Global LTE Cat 4 (3G/2G fallback)                  | Global LTE Cat 4                            | Global LTE Cat 1 (3G/2G fallback)              | Global LTE Cat 1 bis (2G fallback)             | LTE Cat 1 bis (2G fallback)       |
| CAN / CAN FD     | Up to 4x CAN FD (SIC)                              | Up to 4x CAN (CAN 2.0B)                     | Up to 4 buses total: 2x CAN + 2x CAN FD        | 2x CAN + 1x CAN FD                             | Up to 2x CAN                      |
| Ethernet         | Options incl. BASE-T1/ BASE-TX (variant-dependent) | Ethernet listed (details variant-dependent) | 10/100 BASE-TX (RJ45 or M12)                   | 10/100 BASE-TX (M12, optional)                 | Up to 2x 10/100 BASE-TX (RJ45)    |
| WiFi / Bluetooth | WiFi 802.11ac; BT 5.2                              | WiFi + BT 4.2                               | WiFi 802.11 a/b/g/n/ac; BT 4.2                 | Optional: WiFi 6 (802.11ax); BT 5.4            |                                   |
| GNSS             | Multi-GNSS (GPS/ GLONASS/GALILEO/ BeiDou)          | Multi-GNSS (GPS/ GLONASS/GALILEO/ BeiDou)   | Multi-GNSS (GPS/ GLONASS/GALILEO/ BeiDou etc.) | Multi-GNSS (GPS/ GLONASS/GALILEO/ BeiDou/QZSS) | GNSS (GPS + GLONASS)              |
| Ruggedness       | <b>IP67 / IP6K9K</b>                               | <b>IP67</b>                                 | <b>IP40</b>                                    | <b>IP67</b>                                    | <b>IP40</b>                       |
| Security         | Secure Boot + TPM 2.0                              | TPM 2.0 (Only with Global LTE option)       | TPM 2.0                                        | Secure Boot + TPM 2.0                          | Secure Boot + optional TPM 2.0    |

More Info & Webshop





## SOFTWARE

### OWADM [OWASYS DEVICE MANAGER]

owaDM is Owasys' device management platform to monitor, manage, and update deployed owa gateways remotely – helping reduce manual configuration effort and accelerate rollouts.

- ✔ Security model based on encrypted MQTT (MQTTS) with mutual TLS (mTLS).
- ✔ Reporting: export device metrics and reports (e.g. to Excel).

### KEY CAPABILITIES

- ✔ Remote diagnostics & device status dashboard (fleet visibility).
- ✔ Secure remote access options: built-in VPN plus a remote shell (non-blocking commands) without requiring separate VPN/SSH setup for basic access.
- ✔ OTA updates (software/firmware updates and update history features are part of the platform offerings).

## E1 TYPE APPROVED I/O MODULES



### PCAN-MICROMOD FD ECU

Modules PCAN-MicroMod FD ECU is a rugged, configurable control unit for integrating customer-specific vehicle functions and accessories. It combines a CAN FD connection with a rich mix of analog and digital I/Os in an IP67 housing with two automotive connectors, designed for harsh environments in utility and heavy-duty vehicles.

Configured with the free Windows tool PCAN-MicroMod FD Configuration (I/O mapping + function blocks), then downloaded via CAN – the device runs afterwards as an autonomous CAN node.

#### KEY HIGHLIGHTS

- ✓ HS CAN / CAN FD (ISO 11898-2), CAN 2.0A/B + FD; CAN FD data bit rates 40 kbit/s to 10 Mbit/s, CAN 40 kbit/s to 1 Mbit/s.
- ✓ Digital I/O: Four digital inputs (pull-up/pull-down configurable) plus eight high-side digital outputs (two outputs up to 5 A, six outputs up to 2 A; four outputs can alternatively be used as inputs / read-back).
- ✓ Analog I/O: Eight analog inputs (16-bit, adjustable ranges up to  $\pm 20$  V); Four can alternatively be used as analog outputs (12-bit, 0-5 V or 0-10 V).
- ✓ Two frequency outputs (low-side switches, up to 3 A, 0-20 kHz), alternatively usable as analog inputs (0-60 V).
- ✓ Vehicle-ready infrastructure: 8-32 V supply (12/24 V systems), -40 to +85 °C, E1 type approval, wake-up via CAN or dedicated input.
- ✓ Wiring via two 20-pin Molex MX150 automotive connectors (CAN, I/O, power).



#### EXPAND YOUR I/O – IN THE VEHICLE

The PCAN-MicroMod FD ECU can be used as an external I/O expansion module for Owasys telematics gateways. Connected via CAN, it extends the gateway's reach with additional analog and digital I/Os – without additional wiring complexity.

Both units are vehicle-approved and ready for in-vehicle deployment, making the combination a practical solution for OEMs who need more I/O channels than the gateway alone provides.

#### TYPICAL USE CASES

- ✓ Reading additional sensors (pressure, temperature, position)
- ✓ Controlling actuators or auxiliary equipment via digital outputs
- ✓ Monitoring analog signals beyond the gateway's native I/O count

 **More Info:**



## OFF-HIGHWAY VEHICLE DATA ACCESS & LOGGING PLATFORM



COMING SOON



### PEAK-REMOTE LOGGER

PEAK-Remote Logger is a rugged telematics and data logging solution. It delivers IVN data from any on- or off-highway vehicle or mobile machine to your cloud system at your fingertips.

It combines robust hardware with an intuitive configuration workflow to support use cases from development, validation up to fleet operation, maintenance and service.

#### WHY PEAK-REMOTE-LOGGER

- ✓ Quick integration: collect vehicle data from multiple sources (CAN FD, I/O) in parallel for comprehensive insights.
- ✓ Field-ready ruggedness: built for demanding environments with IP67/IP6K9K protection and an extended temperature range.
- ✓ Always-connected workflows: supports remote access via cellular and local access via WiFi/Bluetooth to fit both field and workshop scenarios.
- ✓ Faster telematics development: positioned to reduce telematics development time significantly (up to 80 % stated).

#### HARDWARE HIGHLIGHTS

- ✓ Power + environment: 6-36 VDC supply, < 2.5 W typical consumption, -40 to +70 °C (operation/storage)
- ✓ Powerful, secure and CRA-ready: i.MX8M Plus Quad A53 (64-bit, 1.6 GHz), TPM 2.0
- ✓ Vehicle interfaces: Four CAN FD (SIC), Ethernet (10/100BASE-TX), four analog inputs, Twelve digital I/Os, two serial ports, USB 3.0

- ✓ Connectivity: WiFi, Bluetooth 5.0, Global LTE Cat4, GNSS (GPS/GLONASS/QZSS/BeiDou)
- ✓ Motion context: programmable 6-axis sensor (accelerometer and gyroscope)

#### CONFIGURATION & LOGGING WORKFLOW

The PEAK-Remote Logger is configured by the Advanced Configuration Tool (ACT) from HMS. Fleet installations will be monitored, maintained and updated online through the HMS owaDM device management system. All data acquired by the PEAK-Remote Logger will be stored in user configurable cloud systems (data lake).

#### TYPICAL USE CASES

The PEAK-Remote Logger can be configured to provide a secure connection into the mobile machine.

Through it, ECUs in the vehicle can be accessed from the customers authorized service personnel – enabling the exchange of diagnostic information. Even remote flashing is supported through this channel.

- ✓ Off-highway machine development: capture and correlate drivetrain/chassis/equipment data for debugging and optimization
- ✓ Maintenance & diagnostics: enable reliable data logging for serviceability and troubleshooting in the field – a secured CAN connection into the vehicle works is possible with any diagnostic software.
- ✓ Fleet insights: use recorded data to improve reliability and support predictive maintenance concepts

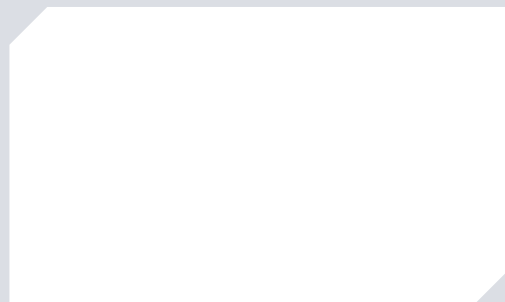


# #1 CHOICE FOR ENGINEERS

## PEAK – Contact

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