



**PLUG & PLAY:** No setup needed - power up and start to log, stream or enrich CAN data out-the-box



**PRO SPECS:** Built for engineers. Used by 10K+ OEMs. Top-tier tech specs - at 50%+ lower cost



**TRULY COMPACT:** Devices are smaller than 8 x 7 x 3 cm and light-weight (100 G). Rugged alu enclosures



**FREE SOFTWARE:** 100% free open source software/API tools. Zero subscriptions. Interoperable formats.



**CONNECTED:** Access your CAN data your way. SD. WiFi. LTE. USB. Ethernet. You own your data 100%



**MADE IN DK:** Danish engineering. Fast global shipping. Excellent free support - from real experts

## CAN bus data loggers & interfaces - simple-to-use. pro specs. interoperable.

**Your data, your way.** Easily log CAN bus data via SD / WiFi / LTE - or stream it via USB / Ethernet. Process the interoperable data in your favorite tools - or via 100% free open source software/APIs. Perfect for vehicle telematics, OEM development, CAN diagnostics and more.



### CANedge - pro specs 2x CAN/LIN logger

The CANedge is our 2nd gen data logger. It combines ease-of-use with cutting-edge specs and powerful configurability. The time stamped data can be processed in your favorite tools - or via 100% free open source software/APIs.

The CANedge1 is recommended for pure data logging use cases.

The CANedge2/CANedge3 is ideal if you need to collect data via WiFi/LTE - e.g. pushing data to your server from a fleet of assets.

### CANsub - CAN interface with USB/Ethernet

The CANsub lets you stream CAN data in real-time via USB/Ethernet - with pro specs, built-in LCD display and zero software installation. The powerful webCAN app runs on the CANsub: Simply open the device URL in your browser to instantly send/receive CAN frames, DBC decode data or plot CAN signals.



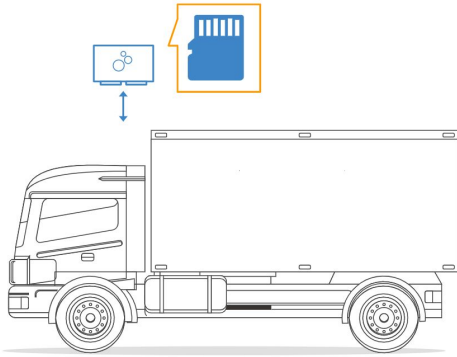
### CANmod - sensor-to-CAN modules

The CANmod is a series of 'sensor-to-CAN' modules that output e.g. GNSS/IMU or thermocouple data. The modules integrate with any CAN bus system - meaning you can use them standalone to inject CAN data into e.g. a vehicle/machine CAN bus.

You can also use them as add-on modules for any CAN logger/interface - incl. In particular as add-ons for the CANedge.



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## Vehicle 'black box'

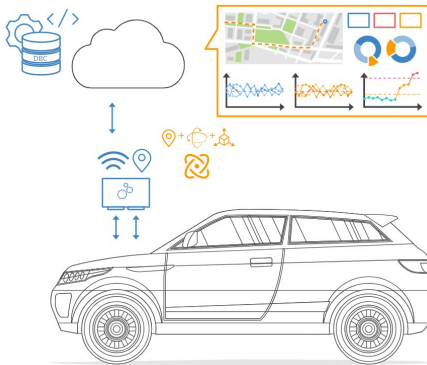
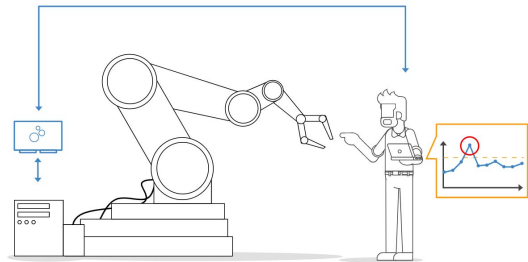
### Need to monitor data from your vehicle fleet?

The CANedge1 is ideal for recording data over long periods from fleets - incl. cars (via OBD2) and heavy-duty vehicles (via J1939). With filters, compression & cyclic logging you can log years of data. Ideal for e.g. warranty/legal data storage or optimization.

## Rare issue identification

### Need to identify a rare, but critical issue?

If you have e.g. production equipment that periodically exhibits an issue the CANedge1 is a great diagnostics tool. Simply connect it and leave it in. If the issue occurs, you can extract the raw data, DBC convert it and plot it for quick diagnostics.



## Vehicle telematics

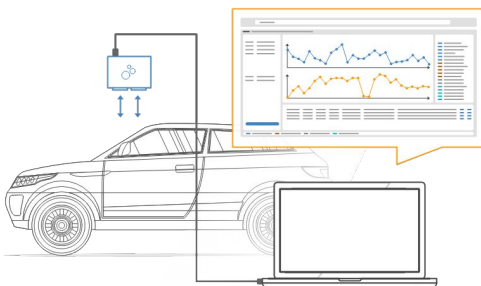
### Need to monitor & optimize a vehicle fleet in near real-time?

For 'on-road' upload of data, the CANedge3 can upload data via 3G/4G to e.g. your own AWS S3 cloud server. Alternatively, the CANedge2 can upload data when the vehicle periodically returns to e.g. a garage WiFi network. Ideal for OBD2 logging, truck fleet management, predictive maintenance and more.

## Warehouse fleet management

### Need to monitor a fleet of AGVs/forklifts in a warehouse?

For site managers/OEMs, the CANedge2 can collect data from AGV/forklift fleets e.g. for optimizing battery management. The device has strong WiFi range, can upload via multiple WiFi access points - and can store data on your local/dedicated/cloud server.



## Direct real-time CAN access via USB

### Need to stream CAN data from a vehicle or machine?

Connect the CANsub to your equipment and plug in the USB cable to your laptop. The device URL appears on the LCD display - enter it in your browser and webCAN opens immediately. Start streaming CAN data from both channels in real-time - with zero software installation. You can also load your DBC files to decode data and visualize CAN signals in smooth real-time plots.

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# CANedge1

## 2xCAN/LIN Data Logger (SD + RTC)



- PLUG & PLAY:** Log data out-the-box. Standalone. Power via CAN connector
- CONFIGURABLE:** Filters. Transmit lists. Triggers. Cyclic logging. Silent mode
- PRO SPECS:** Extractable 8-32 GB SD. 2xCAN/LIN. CAN FD. Zero data loss. 50 µs RTC
- FAST & SECURE:** Industrial SD card. Data encryption for GDPR/CCPA. Compression
- COMPACT:** Only 8 x 5 x 2 CM. 100G. Alu enclosure. 4 LEDs. Configure CH2 5V power out
- INTEROPERABLE:** Convert MDF4 to e.g. CSV, ASC, TRC. Free open source GUI/API

The plug & play 2xCAN/LIN logger records timestamped CAN data (Classical/CAN FD) to the extractable 8 GB industrial SD card.

It's easy-to-use: Simply power the device via your CAN connector to start logging raw data. Extract the data and process it using 100% free open source MDF4 software/API tools - or convert it to your favorite log file format (Vector ASC, PEAK TRC, CSV, ...).

The CANedge1 is ideal for logging of CAN/LIN systems over long periods - e.g. for OEM R&D, diagnostics or legal purposes.

**New:** The CANedge1 is now available with optional GPS/IMU.

### Pro specs CAN logger - at half the cost

The CANedge1 combines innovative design, cutting-edge components - and incredibly low costs:

- Dual high speed CAN/LIN (incl. CAN FD) channels
- Extractable 8-32 GB industrial SD card (months of data)
- Binary MDF4 log file format (extensive tool support)
- Advanced message filtering & transmit functionality
- Start/stop logging triggers based on CAN ID & databytes
- Silent mode, bit rate auto-detection, cyclic logging
- CAN/LIN error frame logging
- Data compression & encryption (e.g. for GDPR, CCPA)
- Fast boot time. Safely disconnect during use



### Open source software/API - naturally

All software/APIs for the CANedge is 100% free and open source.

Data is stored in the popular MDF4 standard to enable interoperability across CAN tools and custom systems.

**Convert:** Simple [MDF4 converters](#) let you convert data to e.g. CSV, ASC (Vector), TRC (PEAK) - for use in your favorite tools.

**Process:** The [asammdf GUI](#) lets you process your data incl. DBC conversion (J1939, OBD2, ...) and graphical plots (Windows/Linux).

**Automate:** Easy-to-use Python APIs let you automate processing of large amounts of data (incl. quickstart library on [github](#)).

**Visualize:** Easily visualize data in customizable dashboards

### Technical specs

#### GENERAL

Safety	CE, FCC, IC certified
Voltage tests	Transients ISO 7637-2:2011 by TÜV SÜD
Warranty	1-year warranty
Support	Free, fast & high quality support
Origin	Denmark
Software	100% free & open source
Documentation	<a href="#">Online/PDF documentation</a>

#### CAN BUS/LIN BUS

Channels	2 x CAN/CAN FD + 2 x LIN (master/slave)
Protocols	J1939, OBD2, CANopen, NMEA2000, FD, ...
Bit-rate	Auto-detect/simple/advanced customization

#### DATA LOGGING

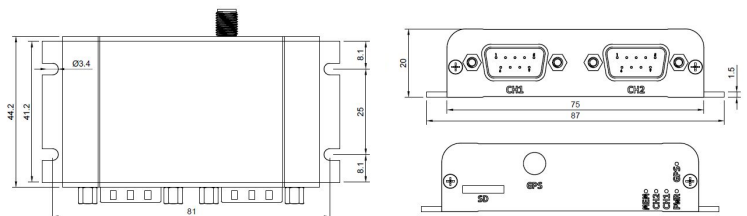
SD CARD	8-32 GB extractable industrial micro SDHC
Real-Time Clock	50 us resolution (incl. battery backup)
File format	MDF4 (.MF4) - easily process/convert
Safety	100% power safe
Configuration	Advanced options (filters, prescalers, compression, error frame logging, data encryption, triggers & more)

#### GNSS/IMU (optional)

GNSS/IMU	Add 40+ GNSS/IMU signals (see deep dive)
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#### MECHANICAL/SUPPLY

Connectors	2 x DB9 (adapter cables available)
Input supply	+7V to +32V DC via Channel 1 DB9
Consumption	<1W
Dimensions	75 x 47 x 20 mm excl. antenna/flanges
Weight	100 G
LEDs	4-5 LEDs (PWR, CH1, CH2, MEM, GPS)
Temperature	-25 degC to +75 degC
IP rating	IP40



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# CANedge2

2xCAN/LIN Data Logger (SD + RTC + WiFi)



**PLUG & PLAY:** Log data out-the-box. Standalone. Power via CAN connector



**SECURE WIFI:** Push data via WiFi to your own server. Enterprise-grade security



**PRO SPECS:** Extractable 8-32 GB SD. 2xCAN/LIN. CAN FD. Zero data loss. 50 µs RTC



**MANAGE FLEET:** Easily update config/FW over-the-air across fleet. Auto-sync RTC via WiFi



**COMPACT:** Only 8 x 5 x 2 CM. 100G. Alu enclosure. 5 LEDs. Configure CH2 5V power out



**INTEROPERABLE:** Convert MDF4 to e.g. CSV, ASC, TRC. Free open source GUI/API

The plug & play 2xCAN/LIN logger records timestamped CAN data (Classical/CAN FD) to the extractable 8 GB industrial SD card.

The small device connects via WiFi access points (e.g. WLAN or 3G/4G routers) to securely push data to your server. Further, the device can be updated over-the-air. The CANedge2 is ideal for telematics & fleet management - as well as R&D field tests, diagnostics and predictive maintenance.

Software/APIs are free & open source - with no fees or lock-in.

**New:** The CANedge2 is now available with optional GPS/IMU.

## Pro specs CAN logger - at half the cost

The CANedge2 combines innovative design, cutting-edge components - and incredibly low costs:

- Dual high speed CAN/LIN (incl. CAN FD) channels
- Extractable 8-32 GB industrial SD card (months of data)
- Binary MDF4 log file format (extensive tool support)
- Advanced message filtering & transmit functionality
- Start/stop logging triggers based on CAN ID & databytes
- Silent mode, bit rate auto-detection, cyclic logging
- CAN/LIN error frame logging
- Data compression & encryption (e.g. for GDPR, CCPA)
- Fast boot time. Safely disconnect during use



## Open source software/API - naturally

All software/APIs for the CANedge is 100% free and open source.

Data is stored in the popular MDF4 standard to enable interoperability across CAN tools and custom systems.

**Convert:** Simple [MDF4 converters](#) let you convert data to e.g. CSV, ASC (Vector), TRC (PEAK) - for use in your favorite tools.

**Process:** The [asammdf GUI](#) lets you process your data incl. DBC conversion (J1939, OBD2, ...) and graphical plots (Windows/Linux).

**Automate:** Easy-to-use Python APIs let you automate processing of large amounts of data (incl. quickstart library on [github](#)).

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### GENERAL

Safety	CE, FCC, IC certified
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Warranty	1-year warranty
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Origin	Denmark
Software	100% free & open source
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### CAN BUS/LIN BUS

Channels	2 x CAN/CAN FD + 2 x LIN (master/slave)
Protocols	J1939, OBD2, CANopen, NMEA2000, FD, ...
Bit-rate	Auto-detect/simple/advanced customization

### DATA LOGGING

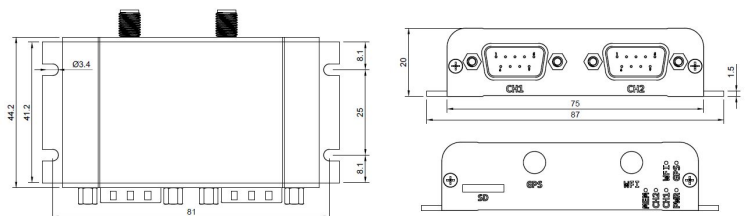
SD CARD	8-32 GB extractable industrial micro SDHC
Real-Time Clock	50 us resolution (incl. battery backup)
File format	MDF4 (.MF4) - easily process/convert
Safety	100% power safe
Configuration	Advanced options (filters, prescalers, compression, error frame logging, data encryption, triggers & more)

### GNSS/IMU (optional)

GNSS/IMU	Add 40+ GNSS/IMU signals (see deep dive)
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### MECHANICAL/SUPPLY

Connectors	2 x DB9 (adapter cables available)
Input supply	+7V to +32V DC via Channel 1 DB9
Consumption	<1W
Dimensions	75 x 47 x 20 mm excl. antenna/flanges
Weight	100 G
LEDs	5-6 LEDs (PWR, CH1, CH2, MEM, WFI, GPS)
Temperature	-25 degC to +75 degC
IP rating	IP40



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# CANedge3

2xCAN/LIN Data Logger (SD + RTC + 3G/4G)



- PLUG & PLAY:** Log data out-the-box. Standalone. Power via CAN connector
- SECURE 3G/4G:** Push data via 3G/4G to your server. Update over-the-air. SIM. E2E security
- PRO SPECS:** Extractable 8-32 GB SD. 2xCAN/LIN. CAN FD. Zero data loss. 50 µs RTC
- MANAGE FLEET:** Easily update config/FW over-the-air across fleet. Auto-sync RTC via 3G/4G
- COMPACT:** Only 8 x 5 x 2 CM. 100G. Alu enclosure. 5 LEDs. Configure CH2 5V power out
- INTEROPERABLE:** Convert MDF4 to e.g. CSV, ASC, TRC. Free open source GUI/API

The plug & play 2xCAN/LIN logger records timestamped CAN data (Classical/CAN FD) to the extractable 8 GB industrial SD card.

The small device connects via 3G/4G (using your own SIM card) to securely push data to your server. Further, the device can be updated over-the-air. The CANedge3 is ideal for telematics & fleet management - as well as R&D field tests, diagnostics and predictive maintenance.

Software/APIs are free & open source - with no fees or lock-in.

**New:** The CANedge3 is available with **GPS/IMU**.

## Pro specs CAN logger - at half the cost

The CANedge3 combines innovative design, cutting-edge components - and incredibly low costs:

- Dual high speed CAN/LIN (incl. CAN FD) channels
- Extractable 8-32 GB industrial SD card (months of data)
- Binary MDF4 log file format (extensive tool support)
- Advanced message filtering & transmit functionality
- Start/stop logging triggers based on CAN ID & databytes
- Silent mode, bit rate auto-detection, cyclic logging
- CAN/LIN error frame logging
- Data compression & encryption (e.g. for GDPR, CCPA)
- Fast boot time. Safely disconnect during use



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Channels	2 x CAN/CAN FD + 2 x LIN (master/slave)
Protocols	J1939, OBD2, CANopen, NMEA2000, FD, ...
Bit-rate	Auto-detect/simple/advanced customization

### DATA LOGGING

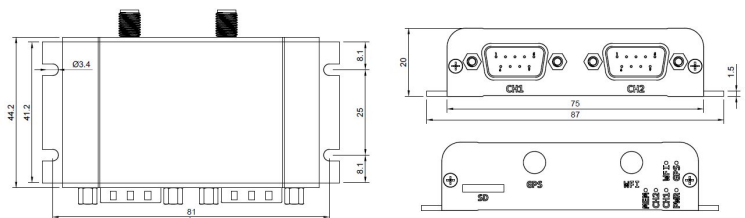
SD CARD	8-32 GB extractable industrial micro SDHC
Real-Time Clock	50 us resolution (incl. battery backup)
File format	MDF4 (.MF4) - easily process/convert
Safety	100% power safe
Configuration	Advanced options (filters, prescalers, compression, error frame logging, data encryption, triggers & more)

### GNSS/IMU

GNSS/IMU	Add 40+ GNSS/IMU signals (see deep dive)
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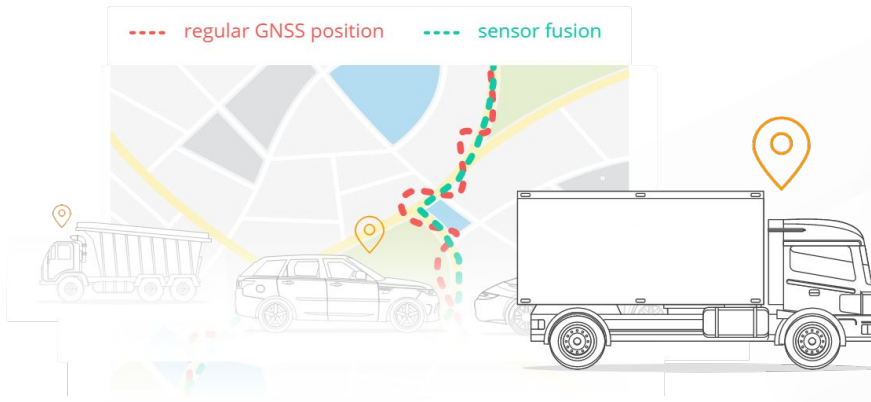
### MECHANICAL/SUPPLY

Connectors	2 x DB9 (adapter cables available)
Input supply	+7V to +32V DC via Channel 1 DB9
Consumption	<1W
Dimensions	75 x 47 x 20 mm excl. antenna/flanges
Weight	100 G
LEDs	6 LEDs (PWR, CH1, CH2, MEM, LTE, GPS)
Temperature	-25 degC to +75 degC
IP rating	IP40



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## GPS & 3D IMU - enrich your data

The CANedge comes with optional cutting-edge GNSS/IMU functionality - perfect for use cases like vehicle telematics.

- Add 40+ GNSS/IMU signals to your 2 x CAN/LIN data
- Full GNSS support (GPS, Galileo, BeiDou, GLONASS)
- Built-in gyroscope (roll, pitch, yaw) + accelerometer (X, Y, Z)
- High precision via sensor fusion incl. in GNSS hostile areas
- Signals encoded as 'internal' CAN data (separate channel)
- Configurable message inclusion/frequency (up to 5 Hz)
- DBC file for easy decoding to human-readable form
- Optionally sync the CANedge RTC via precise GNSS time
- Flexible deployment via external GNSS antenna

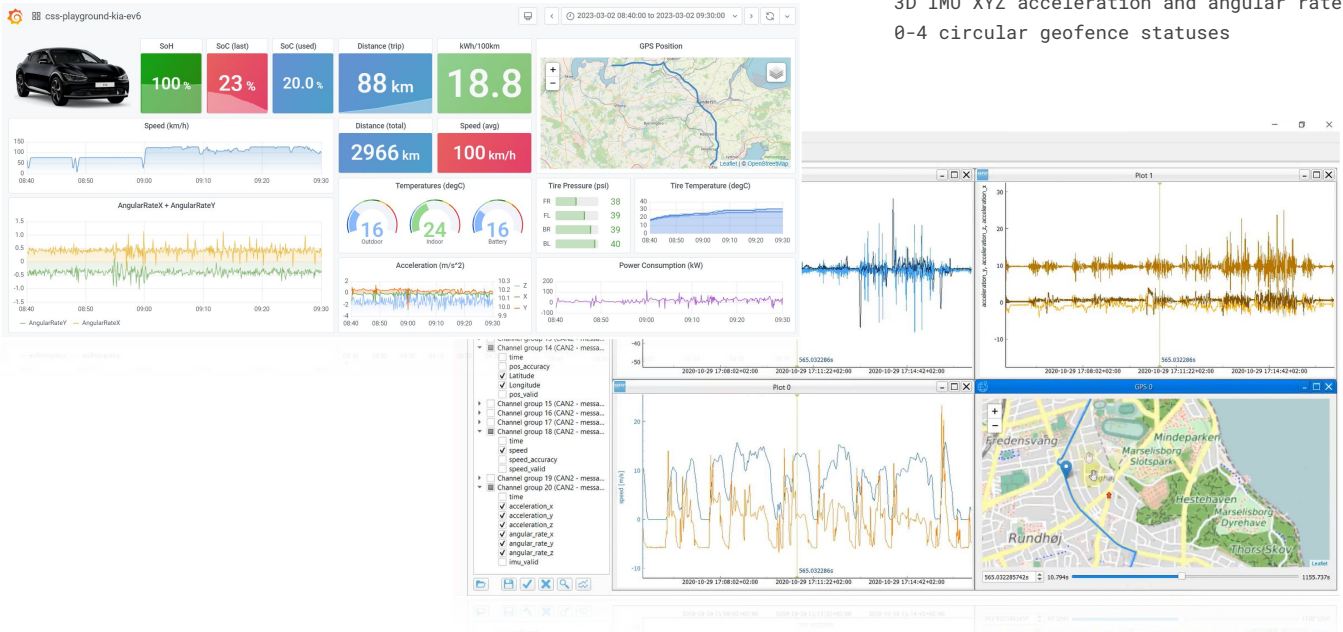
## Technical specs (GPS & IMU)

### GNSS & 3D IMU

Module	u-blox NE0-M9V sensor module with built-in gyroscope and accelerometer
GNSS	Combine GPS, Galileo, BeiDou, GLONASS
Sensor Fusion (UDR)	Up to 3x better accuracy incl. in GNSS hostile areas (tunnels, urban)
CAN encoding	GNSS/IMU data output on 'internal' pseudo CAN channel encoded as CAN frames [5 Hz]
Configurable	Filter/prescale internal GNSS/IMU data
Antenna	GPS antenna as option (required for GNSS)

### Signals

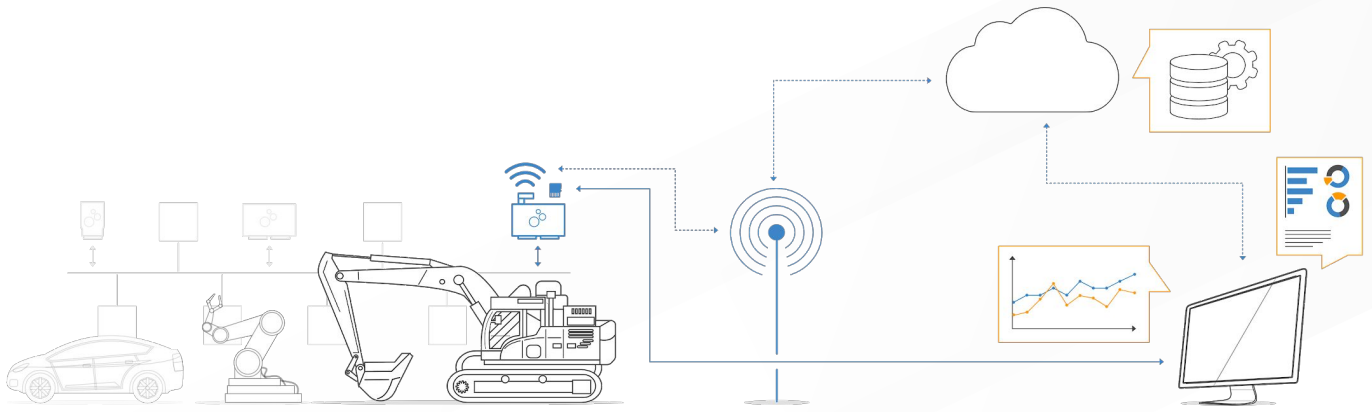
- Position: Longitude and latitude
- Time: High precision timestamp
- Status: Fix type + satellite count
- Speed: Travel speed in m/s and km/h
- Altitude: Altitude in meters
- Roll, pitch, heading [automotives only]
- Distance traveled (since power on)
- 3D IMU XYZ acceleration and angular rate
- 0-4 circular geofence statuses



The CANedge units with GNSS/IMU are ideal for vehicle telematics, diagnostics and analysis - with easy visualization in e.g. Grafana or asammdf

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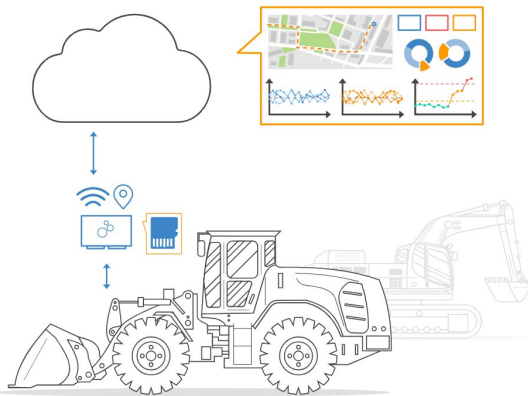
## Reinventing telematics

Today, fleet telematics is vital across vehicles and machines.

However, end users face challenges: Expensive subscriptions. No data ownership. Security concerns. Vendor lock-in.

The CANedge2/CANedge3 provides a modern alternative:

- Upload data to your own local/dedicated/cloud server
- Add WiFi/SIM & server details to the config
- Log data to the SD. Auto-upload when connectivity
- Configure file splits to control upload frequency
- 100% secure: HTTPS, credential encryption and more
- Manage via over-the-air updates (FW & config)
- Zero fees. Zero lock-in. Interoperable. Open source tools



## Technical specs (WiFi, 3G/4G, server)

### WiFi or 3G/4G

Transfer modes	Auto-push data to server from SD
Protocol	HTTP/HTTPS for fast, secure transfer
CANedge2 WiFi	Add 1-4 WiFi prioritized access points
CANedge3 LTE	Add your own micro SIM card
Over-The-Air	Configurable OTA firmware/config updates
WiFi Heartbeat	Device optionally sends periodic status
LAN Standard	IEEE 802.11 b / g / n (CANedge2)
Antenna	External (SMA)
Server Interface	S3 REST - Use with AWS, MinIO, Azure, ...

### SECURITY

HTTPS	Data + OTA updates optionally via TLS 1.2
WPA/WPA2	Supports WPA/WPA2
Credentials	Optionally encrypt WiFi/SIM/S3 passwords
Firmware	All firmware updates are digitally signed
User Access	Manage user access via S3 policies

## Easily manage data/devices on your server

The device uploads data to an S3 server - which makes it easy to manage your server files via any S3-compatible tools or SDKs.

Further, the 100% optional CANcloud tool lets you manage your S3 server devices & data via your browser:

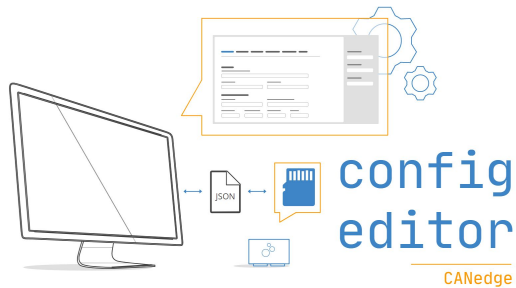
- Host yourself - or simply log into your server via our link
- Monitor device status across your fleet via dashboard
- Browse, download, share & delete uploaded log files
- Easily update config/firmware over-the-air
- Browser based (works on all OS & devices)
- 100% free and open source - easy to customize



The CANcloud status dashboard lets you monitor device data upload and their status (SD %left, firmware version, config status)

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## Easily configure your device

The CANedge/CANmod JSON config can be modified via a GUI editor - either online via browser or offline (e.g. from the SD).

- GUI editor for user-friendly configuration
- Optionally edit your config directly in e.g. Notepad++
- Batch tool available for large-scale configuration OTA

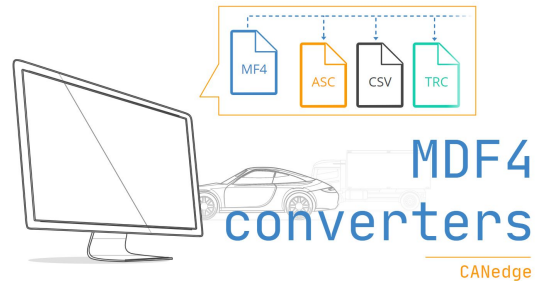
[Learn more](#)

## Load data in your favorite tools

Simple MDF4 converters let you convert data to e.g. CSV, ASC (Vector), TRC (PEAK) - for use in your favorite tools.

- Drag & drop files/folders onto the converter to process
- Optionally use via the CLI or in scripts for automation
- Decompress/decrypt as part of conversion
- Works on both Windows/Linux

[Learn more](#)



## DBC convert & plot your data via GUI/API

The free asammdf GUI/API lets you process your data:

- DBC convert data to physical values (incl. J1939, OBD2)
- Easily create advanced graphical plots
- Resample or concatenate your data
- GUI executable for Windows/Linux (no installation)
- Powerful Python API for big data automation

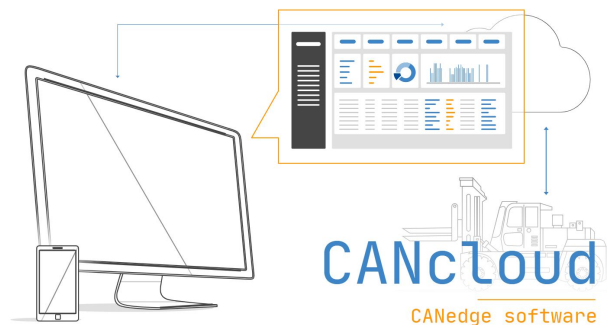
[Learn more](#)

## Manage your server devices & data

CANcloud is a simple browser tool that lets you manage your S3 server devices & data from any PC/tablet with no installation.

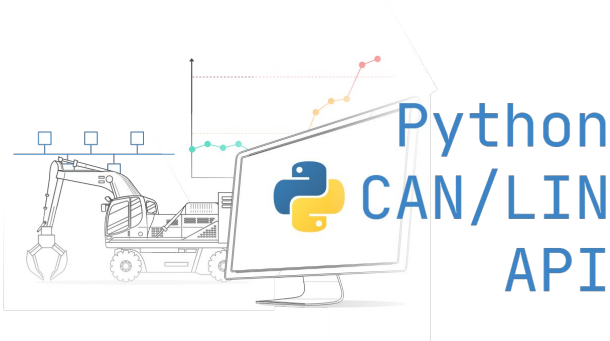
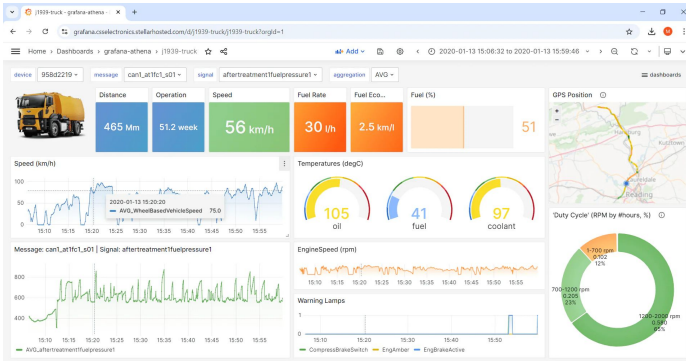
- Host yourself - or simply log into your server here
- Monitor device status across your entire fleet
- Browse, download, share & delete uploaded log files
- Easily update config/firmware over-the-air
- Browser based (works on all OS & devices)

[Learn more](#)



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### Automate your data processing

Need to automate your CAN bus data processing via Python? The free Python API enables easy listing, loading and DBC decoding of your data - from local disk or your server.

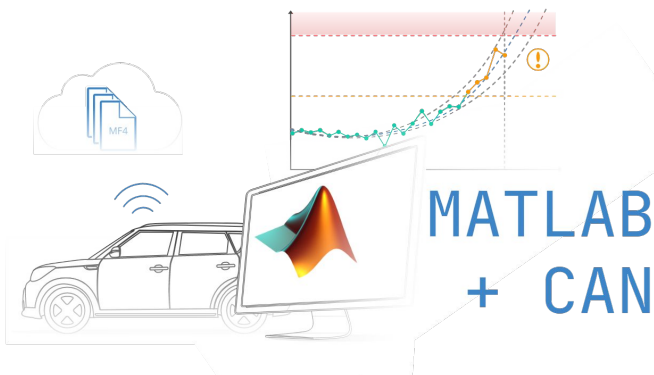
[Learn more](#)

### Visualize your data in dashboards

With our plug & play dashboard integrations, you can quickly get your CAN/LIN data integrated with custom Grafana dashboards.

Perfect for presenting specific views e.g. for internal sharing, diagnostics - or as services towards clients.

[Learn more](#)



### Easily load data in MATLAB

MF4 data from the CANedge can be natively loaded via MATLAB's Vehicle Network Toolbox - or converted to compatible MAT/CSV.

This makes it simple to continue using MATLAB for end users that are familiar with this tool from other projects.

[Learn more](#)







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# CANsub (CANsub.2/CANsub.4)

2-4 x CAN bus interface (USB + Ethernet)



- 
**ZERO INSTALL:** Power via USB. Enter device URL to open webCAN. Start streaming CAN data in your browser
- 
**WEBCAN APP:** Runs on device. Configure device, stream CAN data, DBC decode, plot signals - and more
- 
**PRO SPECS:** 2-4 x CAN FD. Galvanic isolation. 20K+ frames/s. 1  $\mu$ s timestamps. Error frames. Silent mode
- 
**USB+ETHERNET:** USB for direct CAN access via laptop. Ethernet for network, WiFi and remote use. HTTPS
- 
**COMPACT:** Only 8 x 7 x 2 CM. 90G. Aluminium enclosure. Built-in LCD display for device status
- 
**INTEROPERABLE:** REST / WebSocket API lets you build custom web apps, Python integrations and more

This 2-4 x CAN FD interface lets you stream CAN bus data in real-time via USB/Ethernet - with pro specs, built-in LCD display and zero software installation.

The free webCAN app is hosted offline on the CANsub - simply enter the device URL in a browser to start. This lets you instantly send/receive CAN frames, DBC decode data and plot CAN signals from any connected PC, tablet or phone.

The device has an open REST/WebSocket API for building 3rd party apps - with plug & play integrations for e.g. Python and SavvyCAN.

Ideal for CAN bus diagnostics, OEM development, field service, automation, sniffing and dashboards.

## Pro specs CAN bus interface - at half the cost

The compact CANsub.2/CANsub.4 lets you send/receive 2/4 x CAN FD via USB or Ethernet - with professional-grade specs:

- 2-4 x CAN (incl. CAN FD) with galvanic isolation
- Stream CAN bus data via either USB or Ethernet
- Built-in LCD display shows device URL and CAN status
- webCAN app runs on device - zero installation
- 20,000+ frames/second with 1  $\mu$ s timestamp resolution
- Configurable silent mode and hardware ID filters
- Transmit list 'jobs' with edge-based timing precision
- CAN error frame and remote frame (RTR) support



## Access your CAN data from anywhere via Ethernet - LAN, WiFi, LTE

Connect the CANsub via Ethernet to a router - then access it via LAN, WiFi or even the internet:

- Use the CANsub from any device on the network
- webCAN enables instant access via any PC/tablet/phone
- Connect the device to a WiFi router for wireless access
- Access multiple devices with unique bookmarked URLs
- Secure remote access via VPN - incl. via LTE routers
- All data securely encrypted via HTTPS (TLS)

## Technical specs

### GENERAL

Safety	CE, FCC, IC certified
Voltage tests	Transients ISO 7637-2:2011 by TÜV SÜD
Warranty	1-year warranty
Support	Free, fast & high quality support
Origin	Denmark
Software	100% free & open source
Documentation	<a href="#">Online documentation</a>

### CAN BUS

Channels	2-4 x CAN FD (galvanically isolated)
Protocols	J1939, OBD2, CANopen, NMEA2000, FD, ...
Bit-rate	Auto-detect/simple/advanced customization

### DATA STREAMING

Parallel CAN	Send/receive data from up to 2-4 x CAN
Timestamping	Device timestamps data with 1 $\mu$ s res.
Frames/Second	Supports 20,000+ FPS
Silent Mode	Configurable hardware-based silent mode
Filters	Configurable ID filters per channel
Transmit	Configurable edge-based transmit lists
CAN Error Frames	Support for logging CAN error frames

### INTERFACES/SECURITY

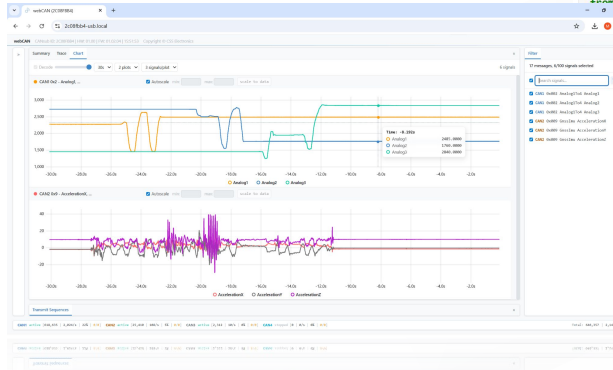
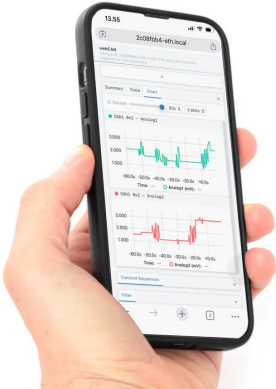
Interfaces	Configure/stream via USB or Ethernet
HTTPS (TLS)	TLS 1.2 encrypts all data communication
Discovery	Supports mDNS to enable easy discovery

### MECHANICAL/SUPPLY

Connectors	CANsub.2: 2 x DB9   CANsub.4: 1 x DB25
Input supply	+5V via USB connector (opt. PoE adapter)
Consumption	<1W
Dimensions	75 x 67 x 20 mm (W x L x H excl. flanges)
Weight	90 G
LCD display	Built-in color LCD display (160 x 80 px)
Temperatur	-25 degC to +70 degC
IP rating	IP40



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```
import can, cantools
from cantools.j1939 import pgn_from_frame_id

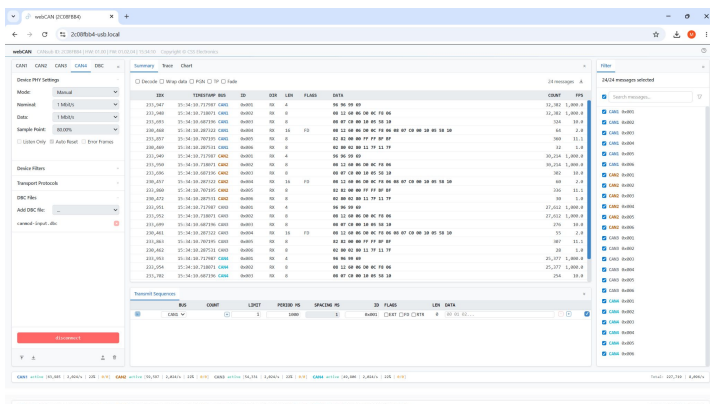
# ...

intools.database.load_file("j1939.dbc", strict=False)
db = get_message_by_name("EEC1")
iN = pgn_from_frame_id(eec1.frame_id)

in.Bus(interface="canbus", channel=CHANNEL, bitrate=250_000, data_bitr
msg in bus:
    if pgn_from_frame_id(msg.arbitration_id) == EEC1_PGN:
        print(f"[{msg.timestamp:3f}] EngineSpeed = {eec1.decode(msg.data)

bus.run()

```



## webCAN runs on your CANsub - zero installation needed

The webCAN app is hosted on the CANsub - simply enter the device URL in your browser to start.

No drivers, no software installation, no internet required:

- Configure bit-rates incl. auto-detection support
- Set hardware filters, silent mode and CAN errors
- Create transmit sequences (optional DBC encoder)
- Connect multiple CAN in parallel (20K+ frames/sec)
- Load and assign DBC files for real-time decoding
- View summary statistics across CAN IDs and signals
- View, export and import trace data (up to 2M frames)
- Support for J1939 TP, ISO-TP, NMEA 2000 Fast Packets
- Visualize decoded signals in real-time charts
- Powerful frontend filters for CAN IDs and signals
- Save/load device configuration and DBC settings

[Learn more](#)

## 100% open CAN interface with free software and APIs

The CANsub provides an open REST/WebSocket API for custom apps & integrations - and a powerful toolbox beyond webCAN:

- Python API: Automate streaming/processing e.g. via AI agents
- SavvyCAN: Stream raw/decoded data - e.g. for CAN sniffing
- Plotjuggler: Plot CAN signals with advanced transformations
- REST API: For device configuration and monitoring (OpenAPI)
- WebSocket API: For real-time transfer of raw CAN frames
- JS/TS libraries: Quickly build custom CANsub web apps
- Docs for AI: LLM-friendly TXT docs for rapid development

[Learn more](#)



# CANmod.gps

GPS-to-CAN with 3D Inertial Sensor & UDR



**PLUG & PLAY:** Standalone - no PC required. Integrate with any CAN bus to add GNSS/IMU data. DBC included



**INERTIAL DATA:** Built-in gyroscope (roll, pitch, yaw) and accelerometer (X, Y, Z). 100 Hz frequency



**COMPACT:** Only 7 x 2 x 5 CM. 70G. Alu enclosure. 4 LEDs. 5-26 V DC via DB9. USB for config/firmware/stream



**SENSOR FUSION:** High precision position and attitude data via sensor fusion of the GNSS/IMU



**USE GLOBALLY:** 1 Hz GNSS position. Hot start via battery backup. GPS, Galileo, BeiDou, GLONASS



**CONFIGURABLE:** Configure CAN IDs, bit rate, data frequency & geofences via JSON config and GUI

This standalone GPS-to-CAN module produces GNSS position and 3D inertial data (via a gyroscope & accelerometer) and outputs it via configurable CAN bus frames.

The module supports 'Untethered Dead Reckoning' - meaning that even if the GNSS signal is lost entirely, the module can deliver continuous positioning through IMU-based estimates (no external inputs required).

You can integrate the module with any CAN bus, e.g. vehicle networks or CAN hardware. As an example, you can use it as a plug & play add-on module for the CANedge.

*Incl. antenna. Optional adapters (dropdown).*

## Easily add GNSS/IMU data to any CAN bus

The CANmod.gps makes it easy to add position and 3D inertial data to your CAN bus - e.g. for use by ECUs or CAN hardware.

- Compatible with any high speed CAN bus (2.0A, 2.0B)
- Fully configure CAN IDs, bit rate and message frequency
- Power at 5-26 V DC via standard DB9 adapter cables
- Optionally record data via any CAN interface/logger/...
- Ex: Use as add-on for the CANedge (power via 2nd port)
- DBC included for decoding to human-readable form
- Optionally stream sensor data via USB in real-time
- White label e.g. for inclusion in your production



## Technical specs

### GENERAL

Safety	CE, FCC, IC certified
Functionality	The device produces GNSS/IMU data and outputs it via CAN bus and/or USB
Warranty	1-year warranty
Support	Free, fast & high quality support
Origin	Denmark
Software	100% free & open source
Documentation	<a href="#">Online/PDF documentation</a>

### CAN BUS

Channels	1 x CAN/CAN FD
CAN IDs	Fully configurable (CAN 2.0A/2.0B)
Bit-rate	Fully configurable (up to 1 Mbit/s)

### SENSOR GNSS/IMU

Module	NEO M8U (GNSS + gyro + accelerometer)
Sensor Fusion	Enhanced precision in GNSS hostile areas
Accuracy	Position: 2.5 m CEP Heading: 1 degree (50% at 30 m/s) Velocity: 0.05 m/s (50% at 30 m/s)
Battery Backup	Battery enables 'aided starts' (3s)

### SIGNALS

CAN Signals	Position: Longitude & latitude [1 Hz] Time: Precise epoch timestamp [1 Hz] GNSS status and satellite count [1 Hz] Speed: Travel speed in m/s [1 Hz] Altitude: Altitude in meters [1 Hz] Attitude: Roll, pitch, heading [1 Hz] Distance since power on and total [1 Hz] Geofences: Status of geofences [1 Hz] IMU: Angular/acceleration rates [100 Hz]
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### MECHANICAL/SUPPLY

Connectors	1 x DB9 (adapter cables available)
Input supply	+5V to +26V DC via DB9 (pin 1 or 9)
Consumption	<1W
Dimensions	65 x 48 x 24 mm (L x W x H)
Weight	70 G
LEDs	4 external LEDs (PWR, CAN, MEM, SIG)
Temperature	-25 degC to +70 degC
IP rating	IP40
Antenna	u-blc.. ANN-MS-0-005 (magnetic base, 5m)

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# CANmod.temp

4 x Thermocouple-to-CAN [Temperature Sensor]



**PLUG & PLAY:** Standalone - no PC required. Integrate with any CAN to add temperature data. DBC included



**PRECISE:** High accuracy with cold-junction compensation & line frequency filtering. Fault detection



**COMPACT:** Only 7 x 2 x 5 CM. 80G. Alu enclosure. 3 LEDs. 5-26 V DC via DB9. USB for config/FW/stream



**USE ANY TYPE:** Configure B, E, J, K, N, R, S, T type (B, E, J, K, N, R, S, T)



**THERMOCOUPLES:** Output data from 4 thermocouples at 5 Hz. High signal resolution of 0.01 degC



**CONFIGURABLE:** Configure CAN IDs, bit rate, message frequencies and more via JSON config and GUI

This thermocouple-to-CAN module produces temperature data from 4 thermocouple sensors and outputs it via CAN bus (standalone) or USB.

The module supports all thermocouple types (B, E, J, K, N, R, S, T) and can be easily daisy-chained.

You can integrate the module with any CAN bus system - e.g. to provide temperature data for your ECUs or existing CAN hardware.

As an example, you can use the module as an add-on for the CANedge - ideal for e.g. engine dynos, EGT analysis or temperature telematics.

*Probes not included.*

## Add temperature data to any CAN bus

Add temperature sensor data via 4 thermocouples to your CAN bus - e.g. for use by ECUs or CAN hardware.

- Compatible with any high speed CAN bus (2.0A, 2.0B)
- Fully configure CAN IDs, bit rate and message frequency
- Daisy-chain multiple modules for 8, 12, 16, ... channels
- Power at 5-26 V DC via standard DB9 adapter cables
- Optionally record data via any CAN interface/logger/...
- Ex: Use as add-on for the CANedge (power via 2nd port)
- DBC included for decoding to human-readable form
- Optionally stream sensor data via USB in real-time
- White label e.g. for inclusion in your production



## Example: Log/stream sensor data

The CANmod.temp is often used as an 'add-on' for the CANedge. This setup lets you record e.g. vehicle data via Channel 1 and temperature data via Channel 2. The data can be easily DBC decoded via e.g. the asammdf GUI, Python or MATLAB.

You can also stream the sensor data in real-time via USB using SavvyCAN to view raw/decoded data (e.g. via plots) - ideal for validating your setup pre-deployment or for lab testing.

## Technical specs

### GENERAL

Safety	CE, FCC, IC certified
Functionality	Supports 4 x thermocouples for outputting temperature data via CAN and/or USB
Warranty	1-year warranty
Support	Free, fast & high quality support
Origin	Denmark
Software	100% free & open source
Documentation	Online/PDF <a href="#">documentation</a>

### CAN BUS

Channels	1 x CAN/CAN FD
CAN IDs	Fully configurable (CAN 2.0A/2.0B)
Bit-rate	Fully configurable (up to 1 Mbit/s)

### SENSOR TEMPERATURE

Module	Pro specs MAX31856MUD+
Channels	4 thermocouple sensors/channels
Temperature	Supports -210°C to +1800°C
Formatting	DegC via automated edge linearization
Accuracy	Lab-grade with cold junction compensation
Resolution	Up to 0.01 degC resolution
Other	Line frequency filtering, fault detection, overvoltage protection

### SIGNALS

CAN Signals	Probe temperatures in degC [5 Hz] Ambient temperature [5 Hz] Faults: Status of each sensor [5 Hz]
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### MECHANICAL / SUPPLY

Connectors	1 x DB9 (adapter cables available)
Input supply	+5V to +26V DC via DB9 (pin 1 or 9)
Consumption	<1W
Dimensions	65 x 48 x 24 mm (W x L x H)
Weight	80 G
LEDs	3 external LEDs (PWR, CAN, MEM)
Temperature	-25 degC to +70 degC
IP rating	IP40

# CANmod.input

Analog/Digital/Pulse to CAN Bus Converter



**PLUG & PLAY:** Standalone - no PC required. Integrate with any CAN bus to add input sensor data. DBC included

**+DIGITAL:** Digital input reading of each channel. 1 kHz. Configure low/high/hysteresis



**COMPACT:** 7 x 2 x 5 CM. 70G. 8 LEDs. 5-26 V DC via DB9. 3.3V excitation signals. USB for config/FW/stream



**+PULSE:** Pulse input reading of each channel. 16 kHz. Frequency or counter mode (up to 32 bit)



**8 X ANALOG:** 8 analog input channels (1 kHz, 10 bit). Configurable voltage ranges (0-0.625V to 0-10V)



**CONFIGURABLE:** Configure sensors, CAN IDs, bit rate, frequencies and more via JSON config and GUI

This sensor-to-CAN module produces analog, digital & pulse measurements from 8 input channels - and outputs the data via CAN bus. The module is 100% standalone, no PC required.

The compact device offers pro specs incl. high accuracy and high-frequency sampling - as well as configurable input ranges and digital thresholds.

The module integrates with any CAN bus to provide data for ECUs or CAN tools. For example, you can use the module as an add-on for the CANedge.

*Optionally add the DB25-to-input adapter.*

## Easily add analog/digital/pulse data to any CAN bus system

Add analog/digital/pulse data via 8 input channels to your CAN bus - e.g. for use by ECUs or CAN hardware.

- Powerful parallel sampling of analog/digital/pulse signals
- Configure input range for optimal resolution/amplification
- Configure digital high/low levels incl. optional hysteresis
- Quickly connect sensors via DB25-input adapter cable
- Optionally output signals via CAN FD for fewer frames
- Daisy-chain multiple modules for 16, 24, 32, ... channels
- Dedicated excitation signal for input sensors (~3.3 V)
- Power device at 5-26 V DC via standard DB9 adapter cables
- Optionally record the data via any CAN interface/logger/...
- DBC included for easy decoding to human-readable form
- Optionally stream sensor data via USB in real-time



## Example: Log/stream sensor data

The CANmod.input is often used as an 'add-on' for the CANedge. This setup lets you record e.g. vehicle data via Channel 1 and analog/digital/pulse data via Channel 2. The data can be easily DBC decoded via e.g. the asammdf GUI, Python or MATLAB.

You can also stream the sensor data in real-time via USB using SavvyCAN to view raw/decoded data (e.g. via plots) - ideal for validating your setup pre-deployment or for lab testing.

## Technical specs

### GENERAL

Safety	CE, FCC, IC certified
Functionality	Produces analog/digital/pulse data from 8 input sensors and outputs via CAN/USB
Warranty	1-year warranty
Support	Free, fast & high quality support
Origin	Denmark
Software	100% free & open source
Documentation	Online/PDF <a href="#">documentation</a>

### CAN BUS

Channels	1 x CAN/CAN FD
CAN IDs	Fully configurable (CAN 2.0A/2.0B)
Bit-rate	Fully configurable (up to 1 Mbit/s)

### SENSOR TEMPERATURE

Channels	Supports 8 input channels
Types	Supports analog, digital, pulse sensors
Input Range	0-10V, 0-5V, 0-2.5V, 0-1.25V, 0-0.625V <i>Ranges are locked in channel pairs of two</i>
Resolution	10 bit
Thresholds	Digital high/low switch thresholds (0-100%) incl. dead-zone/hysteresis
Pulse Modes	Pulse inputs can be measured as frequencies or counters (up to 32 bit)

### SIGNALS

CAN Signals	Analog output in millivolt (mV) [1000 Hz] Digital output as 'actual' (dead-zone, low, high) and 'low'/'high' [1000 Hz] Pulse output as a frequency/counter value (for reset/accumulate mode) [1000 Hz]
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### MECHANICAL/SUPPLY







Connectors	1 x DB9 (adapter cables available) 1 x DB25 (adapter cables available)
Input supply	+5V to +26V DC via DB9 (pin 1 or 9)
Consumption	<1W
Dimensions	65 x 48 x 24 mm (L x W x H)
Weight	70 G
LEDs	8 external LEDs (PWR, CAN, MEM, CH1/CH2, CH3/CH4, CH5/CH6, CH7/CH8)
Temperature	-25 degC to +70 degC
IP rating	IP40

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# CANmod.router

4 x CAN to 1 x CAN (or USB) Converter



-  **PLUG & PLAY:** Connect up to 4 x CAN to receive / transmit the data via 1 x CAN (or USB) - no configuration required
-  **COMPACT:** 7 x 2 x 5 CM. 75G. 7 LEDs. Supply via DB9/USB. 5-26 V. Mounting flanges. USB for config/FW and streaming
-  **PRO SPECS:** 4 x CAN FD. Basic galvanic isolation. Silent mode. Zero data loss. 1 ms precision. Error frame support.
-  **MUX MODE:** Transport 4 x CAN via 1 x CAN. Easily demux data. Optionally transport via CAN FD for max throughput
-  **SEAMLESS:** Fully supported by CANedge/CANmod software/API tools. As if directly interfacing the 4 x CAN
-  **CONFIGURABLE:** Configure filters, prescalers, transmit lists, CAN IDs, bit-rates and more via JSON config and GUI

The CANmod.router lets you receive/transmit CAN data (Classical or FD) from/to 4 isolated secondary CAN buses via 1 primary CAN bus (or USB).

The compact module is 100% standalone (no PC required) and offers pro specs, daisy chaining and powerful configuration options.

It can e.g. be used with the CANedge, enabling you to log 5 x CAN buses (or beyond via daisy chaining).

The device can also be used as a powerful 4 x CAN FD to USB interface with free software/API tools.

*Tip: Add the DB25-to-4x-DB9 for quick installation.*

## Interface four CAN buses with just one CAN bus (or USB)

Receive/transmit data from/to 4 x CAN buses via 1 x CAN bus (or USB) - e.g. for use by CAN loggers, ECUs or via USB streaming.

- 4 x CAN (incl. CAN FD) with basic galvanic isolation
- Power via DB9 (5-26 V and DB9 cables) or USB (5V)
- Independently configure each secondary CAN interface
- Optional silent mode and customizable bit-rates
- Advanced message filters and prescalers
- Configure transmit lists - and/or control via primary CAN
- Support for CAN error frame logging
- Quickly connect 4 x CAN via DB25-to-4x-DB9 adapter cable
- Daisy chain multiple modules for 8, 12, 16, ... CAN channels



## Example: CANedge + CANmod.router = 5 x CAN bus data logger

The CANedge supports 2 x CAN. By adding a CANmod.router, you can now log 1 x CAN (CH1) + 4 x CAN (CH2) - or beyond.

- Power the CANmod.router via the CANedge 2nd port 5V
- Maximise 4 x CAN throughput via CAN FD (mux-mode)
- Easily demux routed data via MF4 converter or Python API
- Control transmission on the 4 x CAN via CANedge
- Daisy chain to log 1 + 8 x CAN, 1 + 12 x CAN (or beyond)

## Technical specs

### GENERAL

Safety	CE, FCC, IC certified
Functionality	Routes data from 4 isolated CAN buses (incl. FD) to one primary CAN bus / USB
Warranty	1-year warranty
Support	Free, fast & high quality support
Origin	Denmark
Software	100% free & open source
Documentation	<a href="#">Online/PDF documentation</a>

### CAN BUS (CAN-P)

Channels	1 x CAN channel (incl. CAN FD support)
Standard	ISO 11898: Compliant with CAN (between 5K and 1M) and CAN FD (1M, 2M, 4M, 5M)

### CAN BUS (CAN-S)

Channels	4 x CAN channels (incl. CAN FD support)
Isolation	Basic galvanic isolation
Standard	ISO 11898: Compliant with CAN (between 5K and 1M) and CAN FD (1M, 2M, 4M, 5M)
Configuration	Each CAN-S channel can be independently configured
Error Frames	Support for logging CAN error frames

### ROUTER MODES

Mux-Mode	Traffic from/to 4 x CAN-S is muxed and transported through 'tunnels' via CAN-P Demuxing done via software/API tools to restore original CAN frames
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### MECHANICAL / SUPPLY

Connectors	1 x DB9 (adapter cables available) 1 x DB25 (adapter cables available)
Input supply	+5V to +26V DC via DB9 (pin 1 or 9)
Consumption	<1W
Dimensions	65 x 48 x 24 mm (L x W x H)
Weight	70 G
LEDs	7 external LEDs (PWR, CAN-P, MEM, CAN-S1, CAN-S2, CAN-S3, CAN-S4)
Temperature	-25 degC to +70 degC
IP rating	IP40