

New release: CANedge incl. GPS/IMU

CSS Electronics newsletter - May 2023



CANedge incl. GNSS/IMU now available

We have now launched the [CANedge1/CANedge2](#) with internal GNSS and 3D Inertial Measurement Unit (IMU).

In short: **It's like a CANedge + CANmod.gps - but in one device!**

Below are key features focused on the GNSS/IMU functionality ([LinkedIn post](#)):



1: GNSS/IMU signals

Add **40+ GNSS/IMU signals** to your 2 x CAN/LIN data, incl. position, speed, trip distance, XYZ acceleration, roll/pitch/yaw and more

[Signal overview](#)



2: Compact

The CANedge incl. GNSS/IMU is **70%+ more compact** vs. using a CANmod.gps, bracket and adapter

[3D STEP & drawings](#)

+100 EUR
~~**+290 EUR**~~

3: Low cost

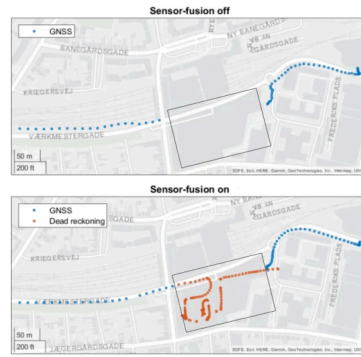
Upgrading to a CANedge incl. GNSS/IMU is **60%+ lower cost** vs. adding a CANmod.gps, bracket and adapter

[Products overview](#)



4: Two free CAN channels

By internalizing the CANmod.gps functionality, you no longer "block" a CAN channel on the CANedge, granting you the full use of the 2 x CAN + 2 x LIN channels



5: Sensor fusion

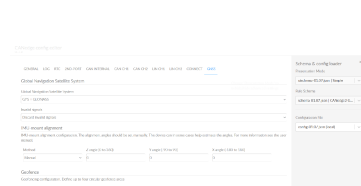
The device offers **3X higher positioning accuracy** via sensor fusion for automobiles - even in GNSS hostile areas (parking lots, tunnels, mines)

[Docs \(sensor fusion\)](#)

5 Hz

6: High frequency

Output all GNSS/IMU messages at **up to 5 Hz** (vs. 1 Hz for most CANmod.gps messages)



7: Configurable

Fully customize which GNSS/IMU messages to record (and at what frequency) - including over-the-air for the CANedge2

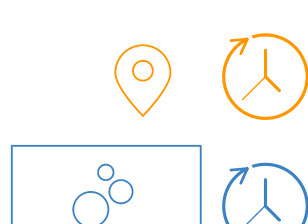
[Learn more](#)



8: DBC file

Free DBC file included for easy decoding of recorded GNSS/IMU messages to physical values

[Docs \(DBC file\)](#)



9: RTC sync via GNSS

Optionally sync the CANedge RTC via the internal high-precision GNSS time for continuous sub-second sync - ideal for fleets or for use cases where you need to log 3+ CAN buses via multiple CANedge units

[Setup guide](#)



10: Pro specs

The device uses the cutting-edge u-blox NEO-M9V module for enhanced precision and features

[Learn more](#)

Featured case studies

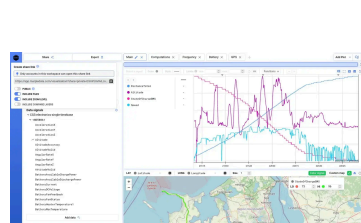


Predictive maintenance in 250+ AGVs

In this case study, one of our tier 1 automotive OEM users explain how they solve a challenge with battery thermal events for 250+ Automated Guided Vehicles (AGVs) across multiple warehouses by setting up predictive maintenance using the CANedge2.

"The CANedge2 enables plug & play integration with existing infrastructure - with consistent performance and quick support from CSS"

[Learn more](#)



Marple: Data analytics visualization

Learn how the CANedge can easily be used with the Marple data analytics platform to visualize big data efficiently. The platform is designed for engineers and offers a lot of powerful functionality - check it out!

"The CANedge + Marple is a powerful combination for engineers looking to visualize and analyze their data with ease"

[Learn more](#)

Status at CSS

The new CANedge incl. GNSS/IMU is a **top 3 requests** from our users - so we're really excited to release it and **the initial feedback has been fantastic!**

The focus now is on our **#1 user request**, which we hope to launch in the coming months. You can learn more on this in our next newsletter or by [following us on LinkedIn](#).

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