

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 documentation

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)
Input supply	+5V to +26V DC via DB9 (pin 1 or 9)
Consumpti	<1W
Dimensions	52.5 x 70.0 x 24.5 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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