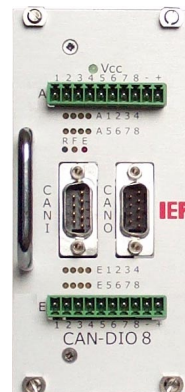
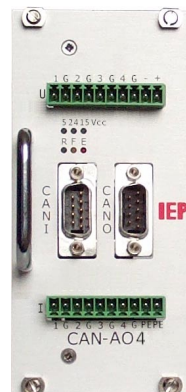
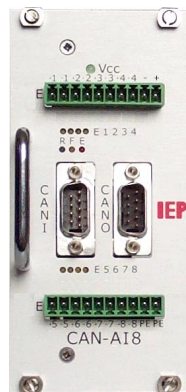


# CAN-modules

Analog und digital modules for the CAN-Bus



The **CAN-xx** modules are a line of durable and inexpensive I/O building groups for industrial control. Two mounting options – rack and DIN-rail mounting – as well as a clear and sensible CAN-communication simplify their deployment.

- DIO8** 8 highside outputs 24 V / 0.5 A with PWM 0%...100%, galvanically isolated and able to drive inductive loads.  
8 isolated digital inputs 24V with edge counter mode
- AI8** 8 differential analog inputs, resolution 10 or 12 bit, input ranges 0-10V, ±10V, 0/4-20mA, PT100 etc.  
By an automatic sample mode, the actual samples as well as their floating averages can be read.
- AO4** 4 analog outputs; 12 bit; 0-10V; ±10V; 0/4-20mA

**CAN-xx**

**Modules**

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## Safety Reliability

All inputs and outputs of the **CAN-xx-modules** are galvanically isolated from the CAN-bus. The bus interface can be powered either by the bus or by a separated, isolated module supply.

Digital I/Os are isolated, using a common supply, analog signals are referenced to a common ground.

A programmable Watchdog controls CAN-Bus activity. The watchdog triggers when a module is not addressed in time. If the watchdog triggers, the outputs are switched inactive and a monitoring LED is lit.

## CAN Bus

The **CAN-xx-modules** are supporting Baud rates from 50 kB upto 1 MB. They use 2...16 successive identifier on the CAN-bus. Baudrate as well as base identifiers are set via solder-joints in the CAN plugs or by rotary hex coding switches.

The modules base addresses can be placed in different CAN-Open-PDO-ranges. **CAN-xx-modules** can collaborate with CAN-Open modules on the same bus, modules with CANOpen-slave software are also available.

Either two 9p-SubD-connectors or pluggable screw-clamp terminals are used for bus connection. The signals of both plugs are connected in parallel, so the wiring can use one or both plugs alternatively. The pin assignment of the 9p-SubD-connector complies to the CiA recommendations.

## Size and Supply

The **CAN-xx-modules** for rack mounting are based on a 100x50 mm PCB. The following housing variants are available:

- bare board for direct installation in devices or machines.
- front panel 3 HE, 12 TE for mounting in 19"-module racks, optionally with closed housing.

The **CAN-xx-modules** for DIN-rail snap-on mounting come in a 85x90x22,5 mm housing. The CAN-bus and the power supply can be routed in the rail, so external wiring is minimised.

The **CAN-xx-modules** use a supply of 18...30 V<sub>DC</sub>. The modules are protected from power supply polarity reversal; an EMV protection circuit assures troublefree operation in an industrial environment.