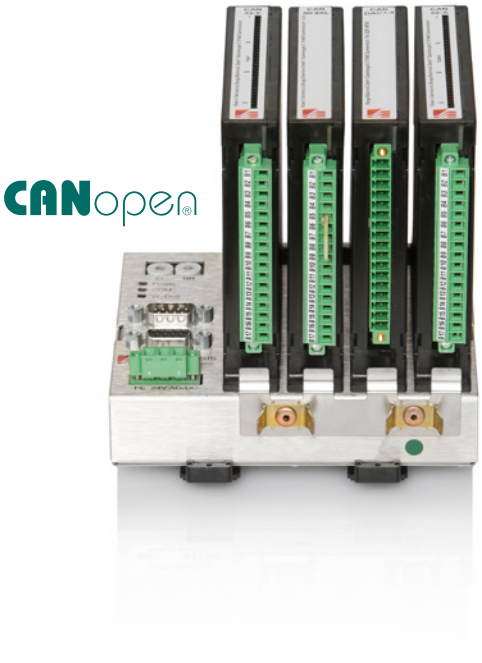
Remote CAN Peripherals

Remote signal processing for data logging and process control



Complex signal processing for analogue and digital I/Os

The CAN peripherals consist of a CAN-Basis4 base station and up to 4 pluggable I/O modules. Communication takes place via the CANopen protocol. The peripheral station is designed for top hat rail mounting. The maximum baud rate is 1Mbaud.

The maximum power consumption is 20 VA, depending on the plugged modules. Up to 16 actual values, 16 analogue outputs, 64 digital inputs and 64 digital outputs per base are processed by the microcontroller. The connections with the mating plug are implemented with spring force or screw terminals.

CAN base unit:

- Switch-on current: 3 A/4 msec.
- Operating temperature: +5 ... +50 °C
- CAN connection, electrically isolated
- Function check: supply voltage, connection with the CAN master, watchdog
- Housing: 127 x 117mm, depth 28mm + 7mm
- If XL modules are used, a preferred measuring channel is available per module

Technical Data

Type	Type of Module	Description
CAN-IW4-XL CAN-IW8-XL	Analogue Inputs (actual value processing)	High-end actual value board with 4/8 inputs Standard signal inputs: 0 ... +10 V, 0(4) ... 20 mA Thermocouples: All types freely configurable Pt100: three-wire or four-wire system Electrical isolation to CAN base unit Electrical isolation of channels among one another (restricted) Resolution: 18 Bit Measuring time per thermocouple and standard signal input: approx. 160 mS Measuring time per PT100 input: approx. 500mS
CAN-IW4-XLS CAN-IW8-XLS	Analogue Inputs (actual value processing)	High-end actual value board with 4/8 inputs Standard signal inputs: 0 ... +10 V, 0(4) ... 20 mA Thermocouples: All types freely configurable Pt100: three-wire or four-wire system Electrical isolation to CAN base unit Electrical isolation of channels among one another (restricted) Resolution: 18 Bit Measuring time per thermocouple and standard signal input: approx. 200 mS Measuring time per PT100 input: approx. 260 mS Preferred channel measurement for 1 channel possible (starting base version 1.17)
CAN-IW8-Q	Analogue Inputs (actual value processing)	CAN module with 8 standard signal inputs Standard signal inputs: 0 ... +10 V, 0(4) ... 20 mA Electrical isolation to CAN base unit Resolution: 12 Bit Measuring time: 100 mS for all inputs possible
CAN-IW8-QB	Analogue Inputs (actual value processing)	CAN module with 8 standard signal inputs Bipolar standard signal inputs: -10 ... +10 V -20 ... +20 mA (with external resistors) Electrical isolation to CAN base unit Resolution: 12 Bit Measuring time: 100 mS for all inputs possible
CAN-DAC1	Analogue Outputs (DAC)	CAN module, 1 analogue output 1 analogue output 0 ... +10 V/0(4) ... 20 mA Resolution: 12 Bit Electrical isolation to CAN base unit
CAN-DAC2 CAN-DAC4	Analogue Outputs (DAC)	CAN module, 2/4 analogue outputs 2/4 analogue outputs 0 ... +10 V/ 0(4) ... 20 mA Resolution: 12 Bit Electrical isolation of channels among one another and to CAN base unit
CAN-E32	Digital Inputs/Outputs	CAN module, 32 digital inputs 32 digital inputs via optocoupler, 24 V DC Light emitting diode for each input
CAN-E16A16	Digital Inputs/Outputs	CAN module, 16 digital inputs /16 digital outputs 16 digital inputs via optocoupler, 24 V DC 16 digital outputs, opto-decoupled, 500 mA per output Light emitting diode for each input and each output
CAN-A32	Digital Inputs/Outputs	CAN module, 32 digital outputs 32 digital outputs, opto-decoupled, 500 mA per output Light emitting diode for each output
CAN-REL8-8A	Digital Inputs/Outputs	CAN module, 8 relay outputs 8 relay outputs 230 V/8 A, 6 changeover contacts, 2 closing contacts Light emitting diode for each output