Remote CAN Peripherals
Remote signal processing for data logging and process control

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

Complex signal processing for analogue and digital I/Os
## Technical Data

<table>
<thead>
<tr>
<th>Type</th>
<th>Type of Module</th>
<th>Description</th>
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| CAN-IW4-XL | Analogue Inputs (actual value processing) | High-end actual value board with 4/8 inputs  
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. 500 mS |
| 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. 200 mS  
Measuring time per PT100 input: approx. 260 mS  
Preferred channel measurement for 1 channel possible (starting base version 1.17) |
| CAN-IW4-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-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   | 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-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 |