BUCHER
automation

# JXM-IO-EX35

## I/O module



- 8 inputs and 20 diagnostic-capable outputs – including high-current paths and PWM with current control
- High switching capacity and high total continuous current
- CAN-ID addressing via tristate inputs allows up to nine nodes in the same network without software configuration, supporting the common-parts strategy
- Short-circuit-proof sensor supply
- Robust, encapsulated housing
- Status LED for every input and output for easy diagnostic

### Description

The expansion module JXM-IO-EX35 is the universal decentralized component for mobile machinery. With its output-oriented I/O configuration, it is particularly suitable for controlling large-scale machines. The module is characterized by its 20 outputs, which can be used to control hydraulic functions, among others. The reference output allows the use of standard sensors and supports pre-processing applications. Communication with the JXM-IO-EX35 takes place via CANopen, enabling easy integration into standard CAN networks of mobile machines. Thanks to its robust, encapsulated housing, the expansion module can be used flexibly under harsh environmental conditions. The status LED matrix allows easy diagnostic of all the inputs and outputs.

## Technical specifications

| | |
|---|---|
| Operating voltage range | DC 8 V ... 32 V, with separate ECU power supply |
| Operating/storage temperature | -40 °C ... +85 °C |
| CAN ports | 1x CANopen |
| Max. amount of inputs/outputs | 28 |
| Inputs | |
| Analog | 4; 0 ... 10 V/0 ... 20 mA, can be configured individually, resolution: 12 bits, input impedance: 35 kΩ, load resistor: 120 Ω |
| Digital/frequency | 4; input impedance 5.6 kΩ; 0.1 Hz ... 10 kHz; NPN/PNP input switchable via software |
| Digital/CAN coding | 2; Coding of the CAN ID, tri-state |
| Outputs | |
| PWM, precision current measuring | 16; 3 A, min. 10 Hz, max. 1.5 kHz; dithering; current-controlled; diagnostic-capable; short-circuit-proof; alternatively usable as digital input (active-low, input impedance 10 kΩ) or digital output (3 A) |
| PWM, half bridge | 4; 12 A, min. 10 Hz, max. 15 kHz; dithering; diagnostic-capable; short-circuit-proof; alternatively two half-bridges can be combined into a full bridge for DC motor control (open loop); parallel connection possible |
| Sensor power supply | 3 sensor supplies (of which 1x 10 V reference output) |
| Max. permitted total current | 26 A |
| Degree of protection | IP66 |
| Vibration | ISO 16750-3 |
| Shock | ISO 16750-3 |
| Protection against polarity reversal | Yes |
| Certifications | E1 (ECE R10), CE ISO 14982 |
| Output diagnostics | Short circuit, no-load |

## Pinout

**X1**

| | |
|---|---|
| VBAT_PWR | 1 |
| VBAT_PWR | 2 |
| GND_PWR | 3 |
| GND_PWR | 4 |

## Pinout

**X2**

| | |
|---|---|
| VBAT_PWR | 1 |
| VBAT_PWR | 2 |
| GND_PWR | 3 |
| GND_PWR | 4 |

## Pinout

**X4**

| | |
|---|---|
| VBAT_ECU | 1 |
| CAN1_L | 2 |
| BOOTSEL | 3 |
| CAN1_H | 4 |

## Pinout

**X5**

| | |
|---|---|
| VBAT_ECU | 1 |
| CAN1_L | 2 |
| GND | 3 |
| CAN1_H | 4 |

## Pinout

**X6**

| | |
|---|---|
| OUT_VREF_SEN | 1 |
| AI_1 | 2 |
| GND_SEN | 3 |
| AI_2 | 4 |

## Pinout

**X7**

| | |
|---|---|
| OUT_VREF_SEN | 1 |
| AI_3 | 2 |
| GND_SEN | 3 |
| AI_4 | 4 |

## Pinout

**X8**

| | |
|---|---|
| OUT_VEXT_SEN_1 | 1 |
| DI_1 | 2 |
| GND_SEN | 3 |
| DI_2 | 4 |

## Pinout

**X9**

| | |
|---|---|
| OUT_VEXT_SEN_2 | 1 |
| DI_3 | 2 |
| GND_SEN | 3 |
| DI_4 | 4 |

## Pinout

**X10**

| | |
|---|---|
| VBAT_ECU | 1 |
| PWMi_H3_1 | 2 |
| GND_PWR | 3 |
| PWMi_H3_2 | 4 |

## Pinout

**X11**

| | |
|---|---|
| VBAT_ECU | 1 |
| PWMi_H3_3 | 2 |
| GND_PWR | 3 |
| PWMi_H3_4 | 4 |

## Pinout

**X12**

| | |
|---|---|
| VBAT_ECU | 1 |
| CFG_1 | 2 |
| GND | 3 |
| CFG_2 | 4 |

## Pinout

**X13**

| | |
|---|---|
| VBAT_ECU | 1 |
| PWMi_H3_5 | 2 |
| GND_PWR | 3 |
| PWMi_H3_6 | 4 |

## Pinout

**X14**

| | |
|---|---|
| VBAT_ECU | 1 |
| PWMi_H3_13 | 2 |
| GND_PWR | 3 |
| PWMi_H3_14 | 4 |

## Pinout

**X15**

| | |
|---|---|
| VBAT_ECU | 1 |
| PWMi_H3_15 | 2 |
| GND_PWR | 3 |
| PWMi_H3_16 | 4 |

## Pinout

**X16**

| | |
|---|---|
| VBAT_ECU | 1 |
| PWMi_H3_7 | 2 |
| GND_PWR | 3 |
| PWMi_H3_8 | 4 |

## Pinout

**X17**

| | |
|---|---|
| VBAT_ECU | 1 |
| PWMi_H3_9 | 2 |
| GND_PWR | 3 |
| PWMi_H3_10 | 4 |

## Pinout

**X18**

| | |
|---|---|
| GND_PWR | 1 |
| PWMI_HL12_1 | 2 |
| GND_PWR | 3 |
| PWMI_HL12_2 | 4 |

## Pinout

**X19**

| | |
|---|---|
| GND_PWR | 1 |
| PWMI_HL12_3 | 2 |
| GND_PWR | 3 |
| PWMI_HL12_4 | 4 |

## Pinout

**X20**

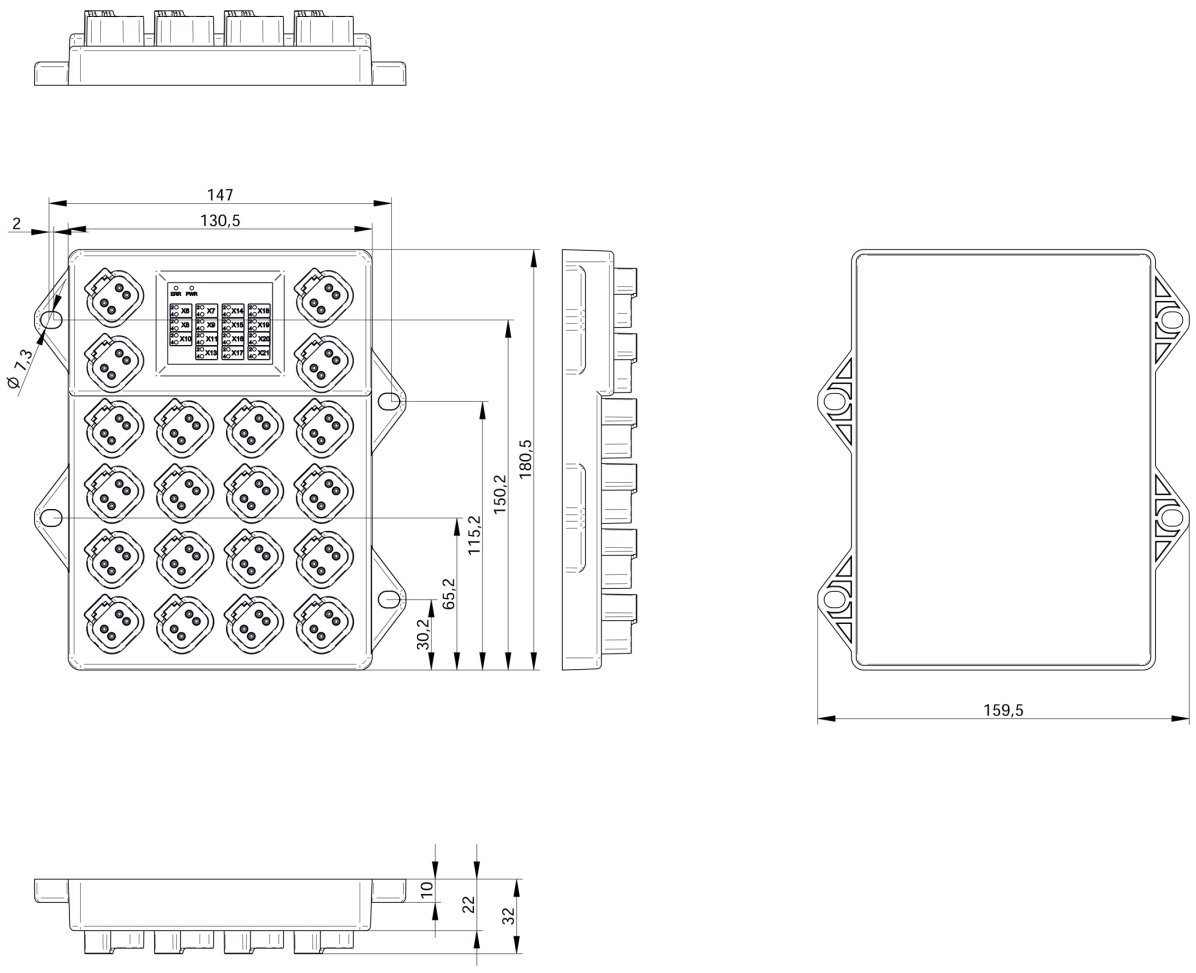
| | |
|---|---|
| VBAT_ECU | 1 |
| PWMi_H3_11 | 2 |
| GND_PWR | 3 |
| PWMi_H3_12 | 4 |

## Pinout

**X21**

| | |
|---|---|
| VBAT_ECU | 1 |
| CAN2_L | 2 |
| GND | 3 |
| CAN2_H | 4 |

## Dimensional drawing



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Further details and order information are available on request. Specifications are subject to change without notice. Errors and omissions excepted.

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