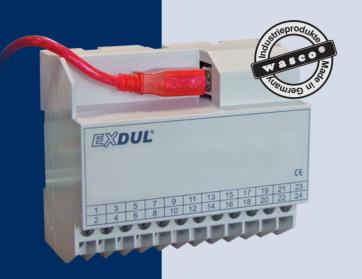


EXDUL-384S

USB Module with 8 Analog Inputs, 8 Analog Outputs, 1 Optocoupler Input, 1 Optocoupler Output



8 A/D inputs 16 bit

or

- 8 A/D inputs single-ended
- 4 A/D inputs differential
- 8 D/A outputs 16 bit
- 1 optocoupler input
- 1 optocoupler output

EXDUL-384S provides either eight single ended or four differential 16-bitA-D input channels. Several bipolar input voltage ranges (+/-0.63 V, +/-1.27 V, +/-2.55 V, +/-5.1 V, +/-10.2 V) can be adjusted. The conversion process including the associated configuration of the A/D components (selection of range and channel) is triggered by software commands. The bipolar output voltage ranges (+/-2.55V, +/-5.1V, +/-10.2 V) of all of the eight 16-bit D/A outputs are softwareselectable as well.

Additionally the module provides one digital input and one digital output which are opto-isolated galvanically by high-quality optocouplers and equipped with additional protection diodes.

Special high power output optocouplers cope with a switching current up to 150 mA. The optocoupler input may be programmed and used as a counter input if required. An external power supply or the USB interface powers the module with the required operating voltage.

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SPECIFICATIONS

A/D inputs

8 inputs single-ended (se) or 4 inputs differential (diff) or combined se/diff selectable via software Resolution: 16 bit Input voltage range bipolar:

+/-0,63 Volt, +/-1,27 Volt, +/-2,55 Volt, +/-5.1 Volt, +/-10.2 Volt

FIFO: 10000 valves Input resistor: 500 MΩ Over voltage protection: 50V Measuring cycle:100kHz

D/A outputs

8 outputs Resolution: 16 bit Output voltage range bipolar +/-2.55 Volt, +/-5.1 Volt, +/-10.2 Volt Output current: max +/-5 mA

Optocoupler input

1 bipolar channel, galvanically isolated Over voltage protection diodes Input voltage range high = 10..30 Volt low = 0..3 Volt

Optocoupler output

1 channel, galvanically isolated High capacity optocouplers Reverse polarity protection Output current: max. 150 mA Switching voltage: max. 50 V

Operation voltage via USB or via external power supply +10 V...+30 V

USB Interface

Compatible with USB 2.0 USB Connection Plug and Play (hot-pluggable, connectable at operating system)

Connection Terminals

1 * 24-pin screw terminal block 1 * USB socket Type B

USB connection lines

- 1 * USB plug Type A
- 1 * USB plug Type B

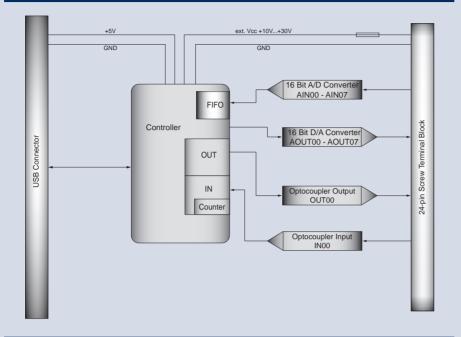
Dimensions

105 mm x 89 mm x 59 mm (l x b x h)

Casing

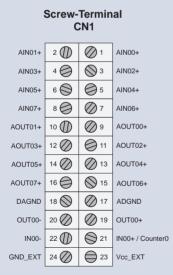
Insulating plastic casing with integrated snapon technology for DIN EN rail mounting. Suitable for control and engineering technology mounted to control and distribution boxes, surface mounting or mobile use on a desk.

BLOCK DIAGRAM



PIN ASSIGNMENT

Terminals Vcc_EXT und GND_EXT are provided for an application of 10 ... 30 V voltage supply.



ASSEMBLY AND APPLICATION OPTIONS



Top-hat Rail Mounting



Wall Mounting



Mobile Use on a Desk

The module provides a 24-pin screw terminal block for connecting the external power supply as well as the analog/digital inputs and outputs. The compact chassis enables the module to be used as a portable device with a notebook. For mechanical or control engineering it can also be easily wall mounted or attached to DIN mounting rail.

PROGRAMMING

Windows®: Driver and program examples for Java, VB.NET, C++.NET, C#.NET, LabView Tutorial Linux[®]: Driver and program examples for C, C++ and Java (see manual) on enclosed CD or download at: www.messcomp.com, Section Support - Software

SCOPE OF DELIVERY

USB Module EXDUL-384S USB connection cable (Type A-B) 3m long German Description (English on request) Installation and sample programs

ORDER INFORMATION

EXDUL-384S EDP-No. A-381920 USB Optocoupler I/O Module

SUITABLE ACCESSORIES

DR-60-24 Power supply providing one output 24 V / 2,5 A, closed construction design, contact-protected screw ter-minals, overload protection by current limitation Power-On-LED



F4652-24-Set Industrial high-power relay combi-nation of two change-over contacts 250 V / 8 A and free-wheeling diode, snap-on technology for DIN EN top-

EDP-No. A-351024

hat mounting



For more detailed information about the here listed and other accessories we refer to the corresponding data sheets

Product and company names mentioned may be trademarks of their respective owners