

# UNIVERSAL CONVERTER

## IoT card

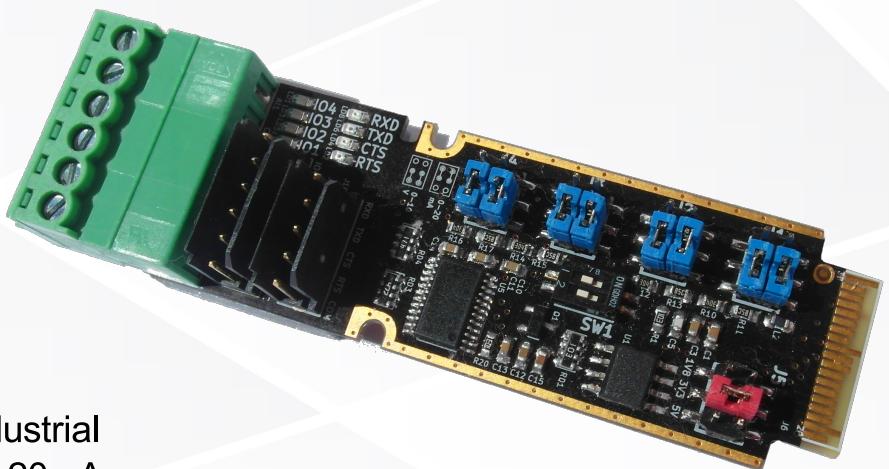
### Why Universal Converter

Universal Converter is IoT card compatible with FX30, mangOH Green and mangOH Red.

The Universal Converter has got 4 analog inputs, 4 GPIO, UART and standard ADC.

The analog inputs supports 3 industrial standards: 0-10V, 0-20mA and 4-20mA. Inputs are configured individually, so it allows to use all channels at the same time in different configurations.

The IoT expansion card also provides logic level shifter on GPIO's and UART port.



### Applications

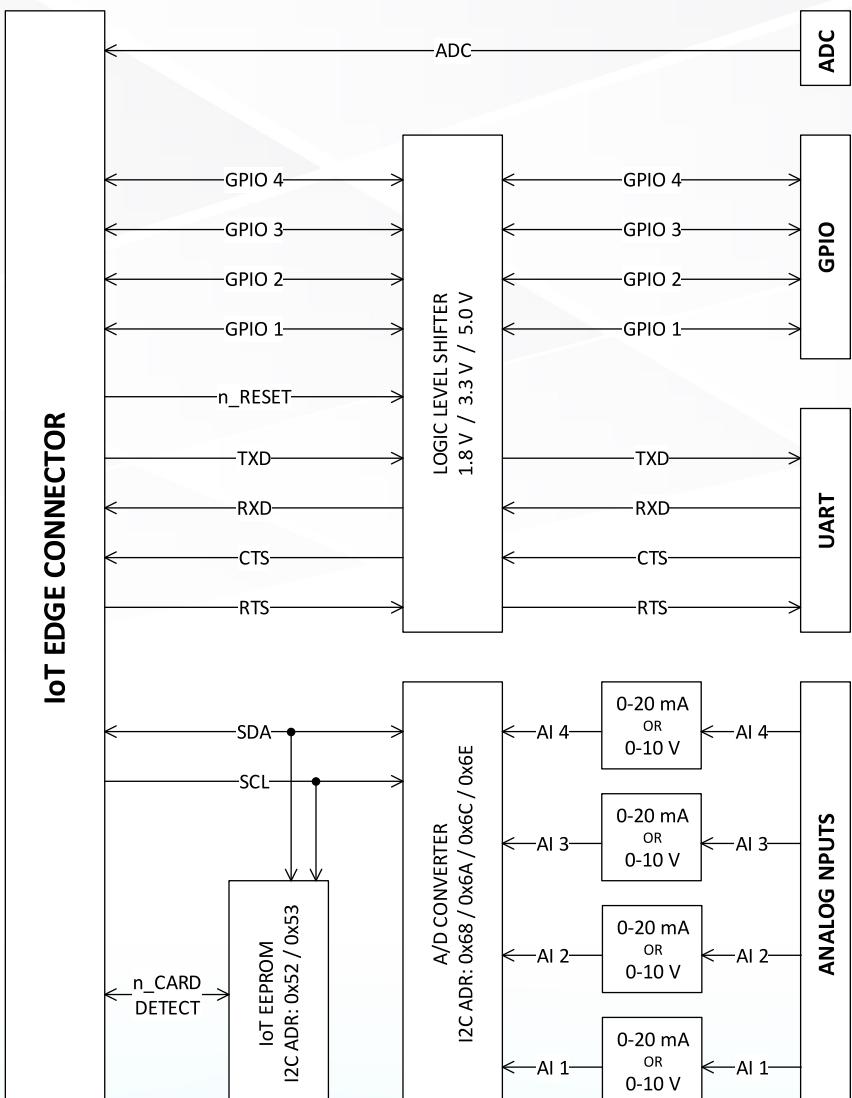
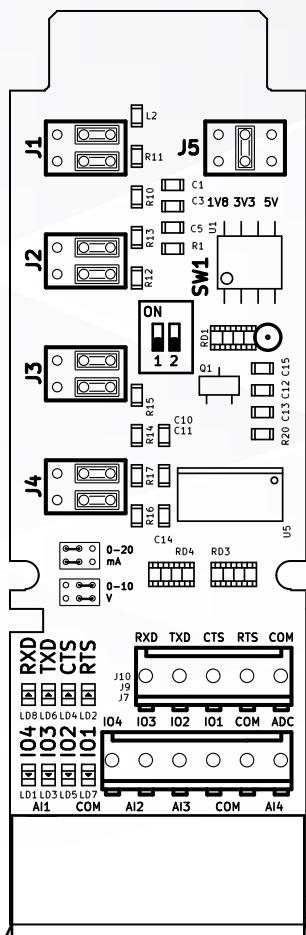
- Industrial automation and control
- Home automation
- Measuring systems
- Data acquiring systems
- HVAC systems
- Motor drive control
- Systems integration / conversion
- Process controller
- HART (using UART converter)
- MODBUS (using UART converter)
- Universal digital interface (using GPIOs)



# Features and specifications

## Technical features

Dimensions W x L x H	22.3 x 70.0 x 9.0 [mm]
Operating temp	-40 °C to +85 °C
Max power (all LEDs ON)	110 mW
Min power (standby)	1 mW
Analog inputs (0-20 mA / 4-20 mA / 0-10 V)	4
GPIO with level shifter (1V8 / 3V3 / 5V0)	4
UART with level shifter (1V8 / 3V3 / 5V0)	1
ADC from host (0-1V8)	1
Latching cover for FX	included



resolution settings	current LSB	voltage LSB
12 bits	10 µA	5 mV
14 bits	2.5 µA	1.25 mV
16 bits	625 nA	312.5 µV
18 bits	156.25 nA	78.125 µV

