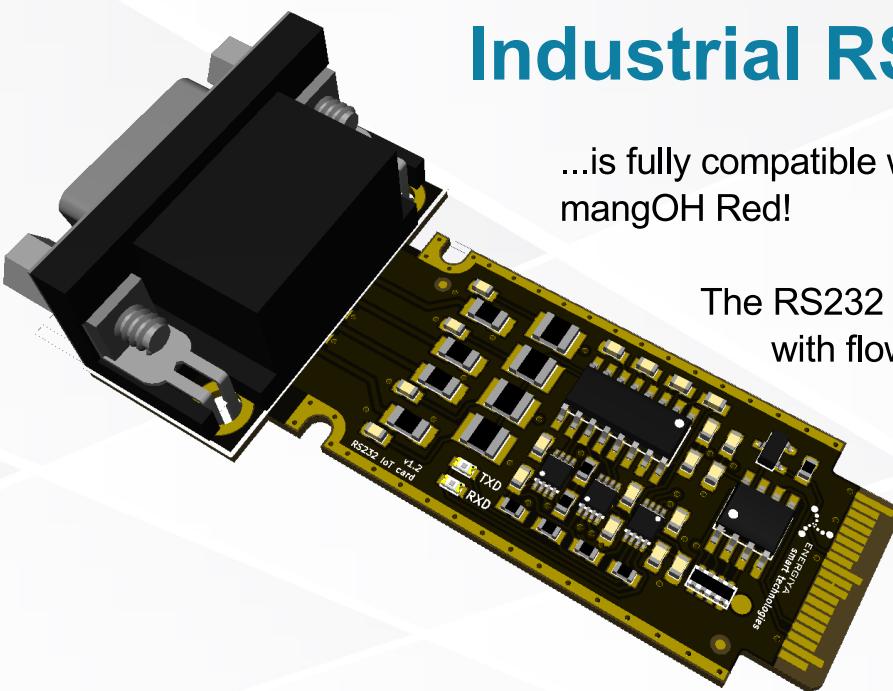


# SERIAL INTERFACES for mangOH™ and FX30

## Industrial RS232 IoT card

...is fully compatible with FX30, mangOH Green and mangOH Red!

The RS232 card is an 4-wire RS232C interface with flow control (RXD/TXD and CTS/RTS).



Professional ESD protection.

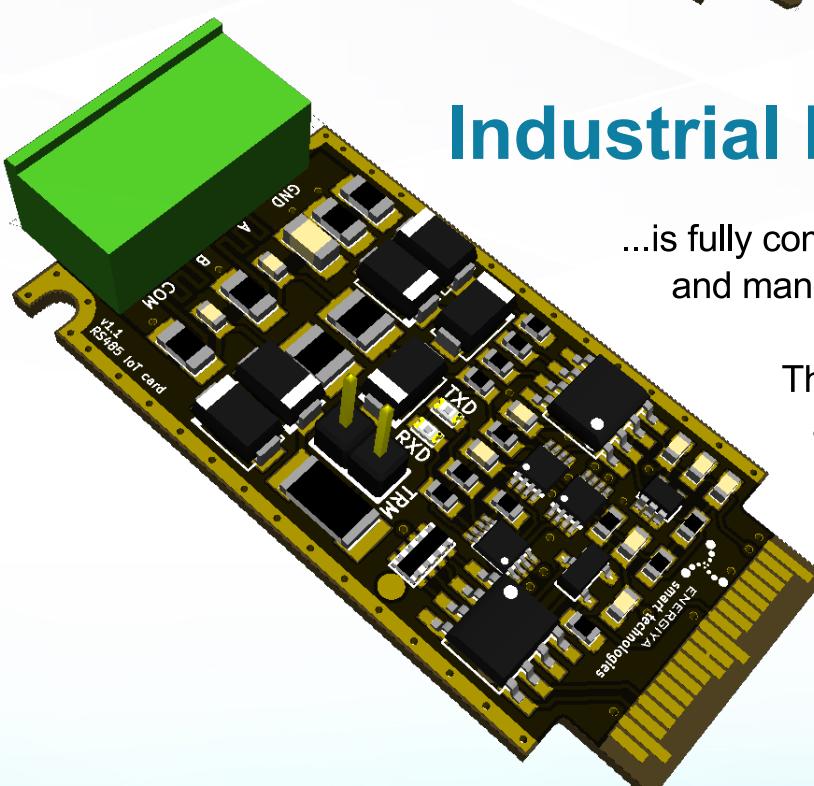
## Industrial RS485 IoT card

...is fully compatible with FX30, mangOH Green and mangOH Red!

The RS485 card does not require an additional flow control line.

The direction of flowing data switches automatically.

Professional ESD protection and earth lug for extreme use.



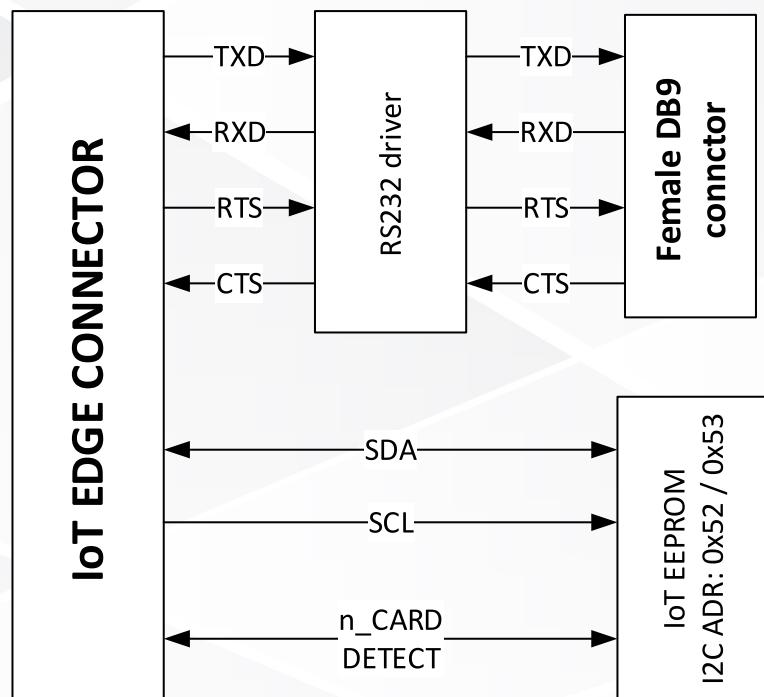
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# Features and specifications

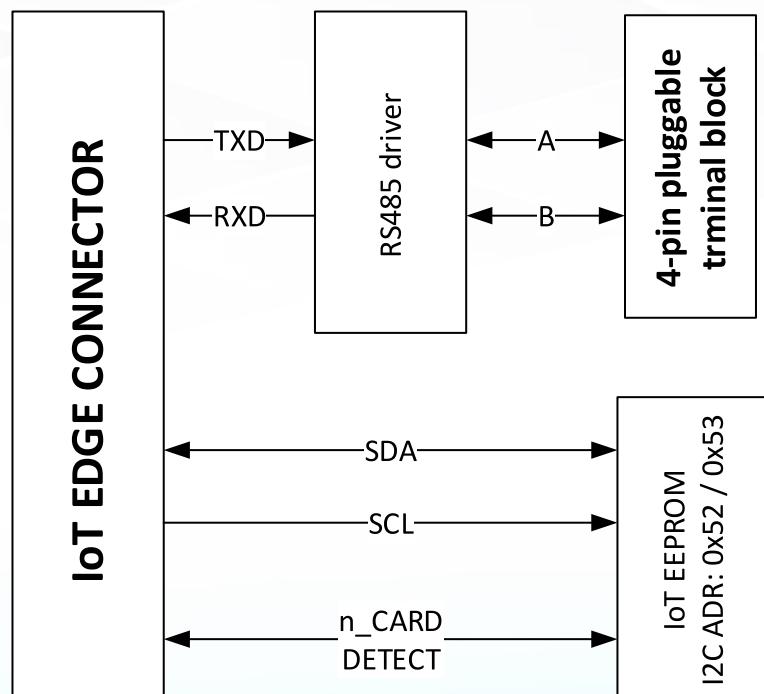
## RS232 BLOCK DIAGRAM



### RS232 technical specification

Dimensions W x L x H	31.1 x 61.5 x 12.5 [mm]
Operating temp	-40 °C to +85 °C
Max power	765 mW
Flow control	yes (CTS / RTS)
Interface connector type	DB9 female
ESD protection	yes
Latching cover for FX30	yes

## RS485 BLOCK DIAGRAM



### RS485 technical specification

Dimensions W x L x H	22.3 x 45.0 x 7.0 [mm]
Operating temp	-40°C to +85°C
Max power	310 mW
Terminator resistor	yes, 120 ohm
Ground lug	yes
Interface connector type	pluggable terminal block
ESD protection	yes
Latching cover for FX30	1

## Applications

- Industrial automation and control
- Home automation
- Measuring systems
- Data acquiring systems
- HVAC systems
- Motor drive control
- Systems integration / conversion
- Process controller
- MODBUS

