



# BAULDS

YOUR PRODUCT **SMARTER**



## BAULDS IO MODULE

BIM - 1M10

PROGRAMMABLE GPIO  
TEMPERATURE -20° TO 55°C  
HOUSING: IP67

**"The IO Module  
makes your  
product smarter"**

## ABOUT:

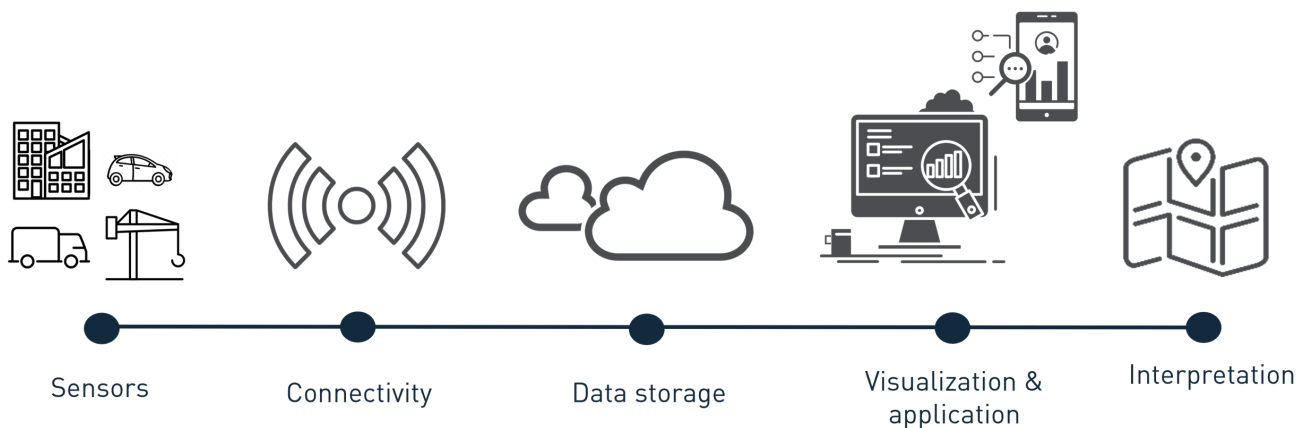
Almost any sensor or actuator can be controlled by our system building block, the Baulds IO Module (BIM). It is an essential and widely used system component to make your product smarter.

The BIM is a solution to collect sensor data and for enabling communication between sensor/actuator and the Baulds Connectivity Master (BCM).

The strength of the BIM is to provide a programmable connection for several types of sensors and actuators. The BIM is a ruggedized, waterproof (IP67), device with considerable computing power (ARM Cortex M3 based), and application software that processes the data between the BCM and the sensors/actuators.

## CUSTOMIZATION THROUGH MODULARITY

Baulds always provides custom solutions and the BIM is therefore suitable for many applications, for example compact cranes or climate-controlled transport. We can offer this versatility because of the modular design of our hardware and software.



## FACTS:

### Applications

- Industrial applications
- Construction equipment
- Smart farming machinery
- Transportation

### Power Supply

- Power supervision
- Operating voltage  
9VDC - 36VDC

### CPU & Memory

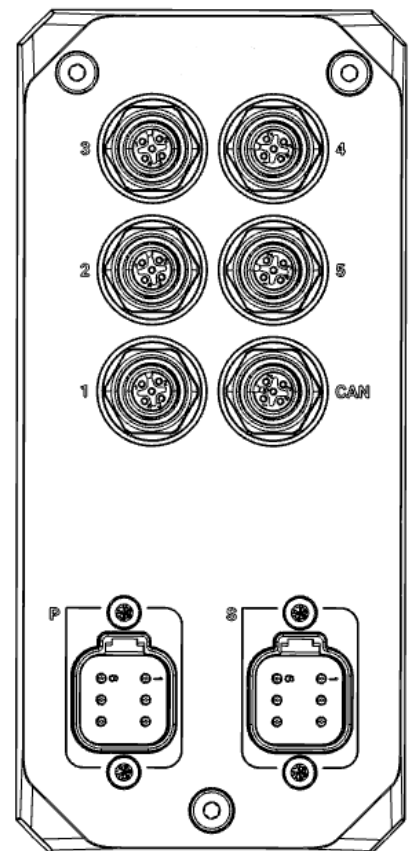
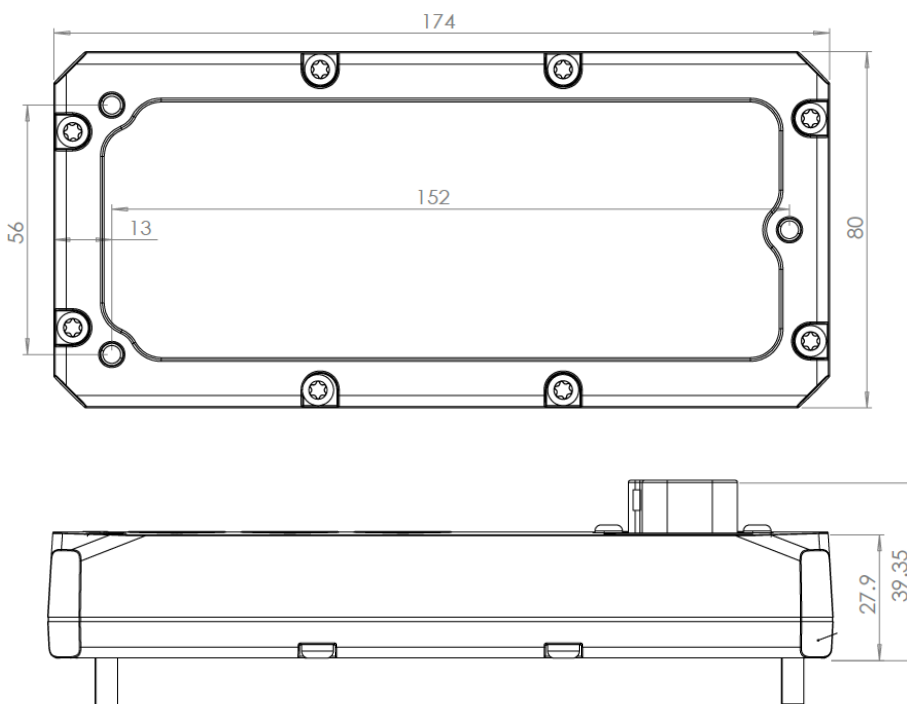
- 16Kbit on-board FRAM
- 4Kbit on-board NFC EEPROM
- Processing unit NXP  
LPC family (cortex M3)

### On-board Monitoring

- Triaxial acceleration sensor
- Current measurements

### Connectivity

- Two CAN interfaces
  - CANopen and J1939 supported
- 10 full GPIO pins:
  - Analog voltage input
  - Digital input
  - Digital output (PWM supported)







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