# ADAPTIVE **RECOGNITION**

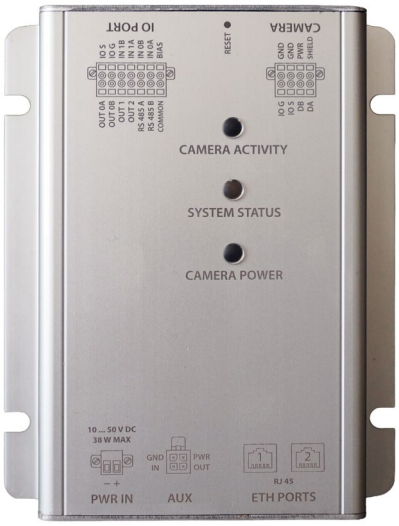
Technical Datasheet

# BoB MAXI

## Electrical

| | |
|---|---|
| Input Voltage | 10 – 50 VDC* |
| Protection | Overvoltage, reverse polarity |
| Power consumption (MAX) | |
| Without load on AUX and CAM ports | 2.2 W |
| Full load | 38 W |

*The device tolerates a momentary drop of input voltage to 6.5 V.




## Enviroment

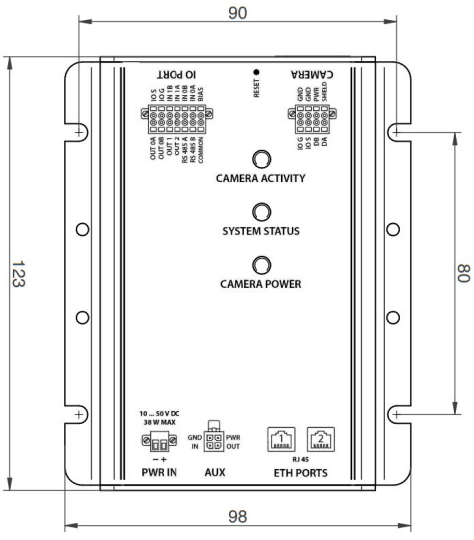
| | |
|---|---|
| Ingress protection class | IP40 |
| Ambient temperature | -40°C – 55°C |

## Mechanical

| | |
|---|---|
| Weight | 250 g |
| Size (LxWxH) | 123x98x27 mm |

## Wiring

| | |
|---|---|
| Signal wires | |
| Wire diameter | 0.25 mm2 - 1.5 mm2 |
| Strip/ferrule length | 10 mm |
| Power wires | |
| Wire diameter | 0.25 mm2 - 1.5 mm2 |
| Strip/ferrule length | 7 mm |

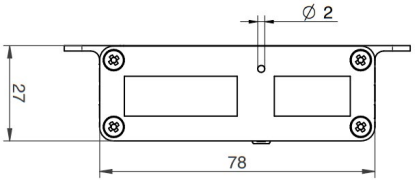



## Camera connector

| | | |
|---|---|---|
| 1 | DA | Data A (Green/white) |
| 2 | DB | Data B (Green) |
| 3 | IO_S | IO Signal (Orange/white) |
| 4 | IO_G | IO Ground (Orange) |
| 5 | SHIELD | Cable shielding (Shield/black) |
| 6 | PWR | Power in (Brown and Brown/white) |
| 7 | GND | Ground (Blue) |
| 8 | GND | Ground (Blue/white) |

## IO Connector

| | | |
|---|---|---|
| 1 | COMMON | Common ground reference point for IO (BIAS, RS485, OUT1, OUT2) |
| 2 | RS485_B | Galvanically isolated RS485 B, reference point: COMMON |
| 3 | RS485_A | Galvanically isolated RS485 A, reference point: COMMON |
| 4 | OUT_2 | 2 x High speed, galvanically isolated output, internally pulled up to BIAS (5 V), reference point: COMMON |
| 5 | OUT_1 | |
| 6 | OUT_0A | Solid state relay output, dry contact, max. 60 V, 100 mA, polarity independent |
| 7 | OUT_0B | |
| 8 | BIAS | External 5 V power source, galvanically isolated, only for GPIO pullup, reference point: COMMON |
| 9 | IN0_A | 2 x Galvanically isolated, polarity independent inputs, max. 24 V, HIGH min. 3 V, LOW max.: 1 V |
| 10 | IN0_B | |
| 11 | IN1_A | |
| 12 | IN1_B | |
| 13 | IO_S | Camera direct I/O port, signal |
| 14 | IO_G | Camera direct I/O port, ground |




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# BoB MAXI

## AUX Connector

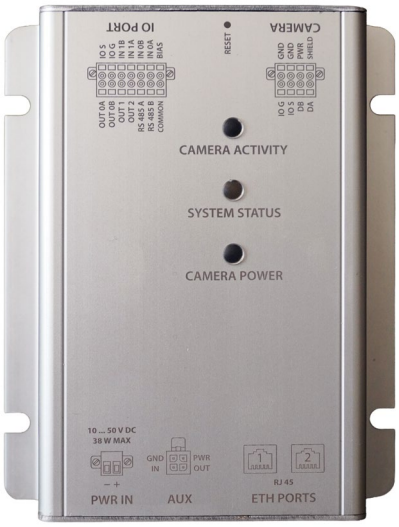
| | | |
|---|---|---|
| 1 | GND | External/router power/IO ground |
| 2 | PWR | External/router power (14 V) |
| 3 | IN | External/router IN |
| 4 | OUT | External/router OUT |

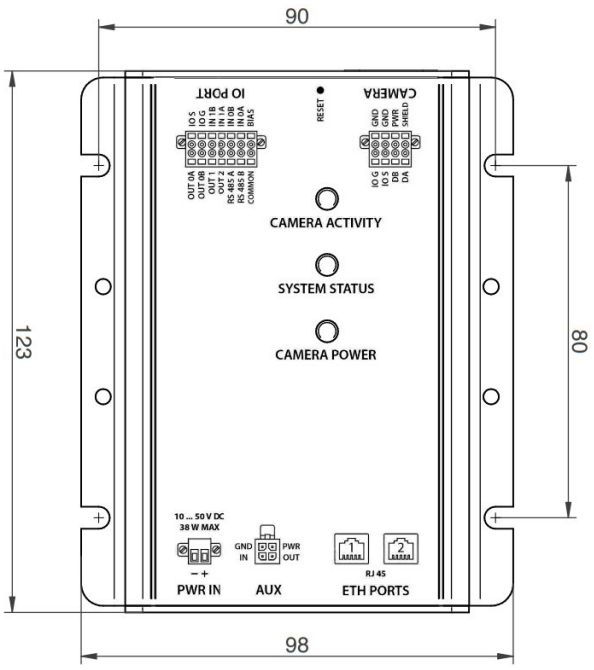
## Ethernet ports

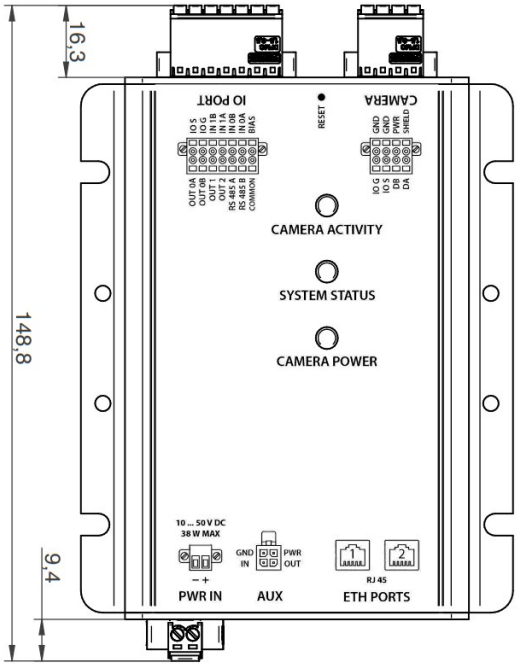
| | | |
|---|---|---|
| 1 | PORT1 | Ethernet port 1 |
| 2 | PORT2 | Ethernet port 2 |

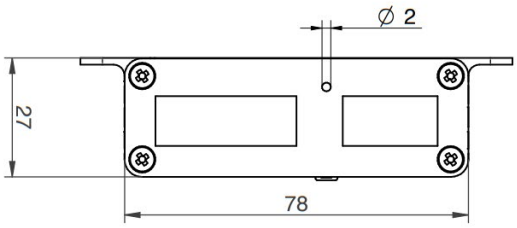
## Expansion ports

| | | |
|---|---|---|
| A | PORT_A | UART/I2C/2xGPIO |
| B | PORT_B | UART/I2C/2xGPIO |
| C | PORT_C | Analog IN/GPIO |
| D | PORT_D | Switchable power output (3.3 or 5 V) |




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