



## Description

This device is a special I/O module that has 28 I/O in total with the ability to connect it using:

- 1- Modbus Router
- 2- BACnet Gateway
- 3- IOT Cloud via Blynk server

The jumper on TOP card (J11-MODE) select the Modbus Router or BACnet Gateway function with IOT Blynk enabled.

## Technical Data

### Supply

Operating voltage : 12 ... 24 V AC/DC  
Current consumption : 100mA (AC)

### Housing

Dimensions L x W x H : 115 x 120 x 43 mm  
Weight : 250 g  
Housing : IP31, Flame proof plastic

### Terminal blocks

Screw terminals : Pluggable  
Wire diameter : Diameter ≤ AWG 14 (2.5 mm<sup>2</sup>)

### Temperature range

Operation : -5 °C ... +55 °C  
Storage : -20 °C ... +70 °C

### RS-485

1/8 load non-isolated RS485 (isolated-optional).

### Display

Operating : Heartbeat Orange LED

Power : Green LED  
Fuse Fail : Orange LED  
Tx/Rx/Activity (MS/TP) : Orange/Green/Orange LEDs



### Interface

Protocol : RTU (Remote Terminal Unit)  
Transmission rate : 9600 bps  
8Bit Data/1Stop Bit/No Parity  
Query rate min. : 200ms  
Timeout min. : 200ms  
Cabling : RS485 two wire bus

### Support Functions

- 1 Read Coil Status
- 2 Read Input Status
- 3 Read holding registers
- 4 Read input register
- 5 Force Single coil
- 6 Preset Single register
- 15 Force multiple coils
- 16 Preset multiple registers



### Interface

Protocol : MS/TP (Master Slave Token Passing)  
Transmission rate : 9600, 19200, 38400 (default), and 76800 bps  
Cabling : RS485 two wire bus

### Support Services

- Confirmed Read property
- Confirmed Read property multiple
- Confirmed Write property
- Unconfirmed Who is
- Unconfirmed I am
- Unconfirmed Who has
- Unconfirmed I have
- Confirmed COV
- Unconfirmed COV Notification
- Confirmed COV Notification
- Confirmed Reinitialize Device



### Interface

Protocol : Wi-Fi 2.4GHz, Serial UART 3V3 TTL  
Transmission rate : 115200 bps  
Cabling : ESP-01 Socket Pluggable