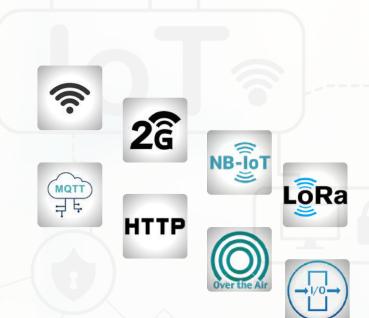# ThingsNode

ThingsNode ICS40

IOT NODE FOR INDSUTRIAL CONTROLLING & SENSING

ThingsNode ICS40 is a IoT node device specially designed for industrial controlling and monitoring applications. Thingsnode SDK supports configure device in a few minutes. With wide range of communication options, Opto-isolated inputs, Relay outputs and supporting of industrial protocols like MODBUS makes ThingsNode ICS40 is a perfect device for the industrial IoT applications. Inbuilt USB, RGB led and Buzzer provide more options to interact. Surge protected power inputs and industrial grade components supports to withstand in harsh industrial environment. Expansion header open up more oppertunities for adding more peripherals.

Key Features

- Multiple communication options
- Easily configurable Framework
- Powered by powerful SAMD21 MCU
- Wide supply voltage
- 3 opto-isolated inputs
- 2 relay outputs
- Over-The-Air firmware updates

ThingsNode

Communication

- WiFi   - 2.4GHz ,802.11 b/g/n
- 2G   - 850/900/1800/1900MHz
- NB-IoT - B1, B3, B5, B8, B20, B28
- LoRa   - 433MHz

Input/Outputs

- 3- Opto-isolated inputs
- 2- 10A relay outputs
- USB
- Buzzer
- RGB led
- Digital Potentiometer (optional)

Programming

- AT Commands
- PlatformIO
- Arduino
- Atmel Studio

Cloud Connectivty

- MQTT
- HTTP
- MQTTS*
- HTTPS*
- Magicblocks

Interfaces

- RS485/MODBUS (optional)
- UART/SPI/I2C/Analog

Power

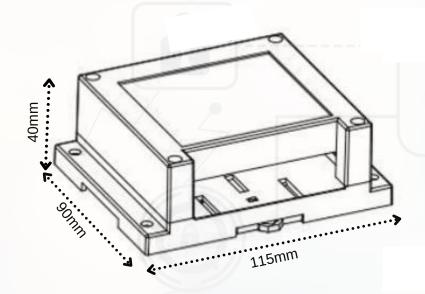- 7-24V DC

Protection

- Reverse polarity
- Surge Protection

Dimension

- 115mmx90mmx40mm
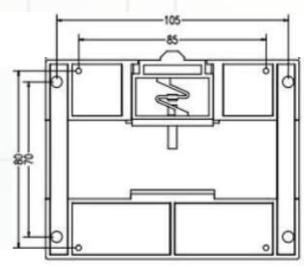
Weight

- 200g ±10g

Dimension