ThingsNode

ThingsNode IS40-ECO

LOW POWER IOT NODE FOR INDSUTRIAL SENSING

ThingsNode IS40-ECO is a IoT node device specially designed for low power industrial monitoring applications. Thingsnode framework supports configure device in a few minutes. With wide range of communication options and powering options ThingsNode IS40-ECO is a perfect device for the battery powered industrial IoT applications. Expansion header open up more opportunities for adding more peripherals. Support various battery types such as li-ion, Alkaline & Li-SO2Cl2 with proper configuration device can run years with batteries even without charging.

Key Features

- Designed for battery powered applications
- Support Li-ion/ Alcaline/ Li-SOCl$_2$ Batteries*
- Solar or external charging for Li-ion*
- Multiple communication options*
- Easily configurable SDK
- Powered by powerful SAMD21 MCU
- Over-The-Air firmware updates

*Configurable options

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

- USB
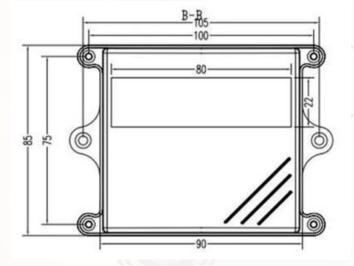- Digital Potentiometer (optional)
- 3- Digital or Analog I/O (MCU)

Programming

- AT Commands
- PlatformIO
- Arduino
- Atmel Studio

Power*

- 7-24V DC Input
- Li-Ion 18650 x 1
- Alkaline AA x 2
- Li-SOCl$_2$ AA x 1 or 2
- Solar 12V or 5V

Cloud Connectivty

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

Interfaces

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

Protection

- Reverse polarity
- Surge Protection

Dimension

- 90mmx85mmx40mm

Weight

- 200g ±10g (without battery)

*power option need to mention when ordering

Dimension