



ThingsNode

Made for Industrial IoT solutions



www.thingsnode.cc

ThingsNode simplifies the connecting mechanism of existing machines to the cloud, monitoring different parameters and to use inputs for automations with its innovative hardware and software framework.



Internet of Things(IoT) with ThingsNode

The fourth industrial revolution will be triggered by the enhancement of new technologies. Internet of Things (IoT), advance communications, smart technologies, Artificial intelligence and robotics will be some of the prominent aspects of the Industry 4.0 according to the present forecasts.

IoT commonly identified as the extended network of devices, connected over communication channels to perform certain tasks and to achieve desired results. ThingsNode is a device made for IoT with more features providing flexibility of utilizing for applications in a wide variety of industries.

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ThingsNode

Applications



Agriculture

Increase agricultural productivity and yield with proper resources utilization using IoT technology.



Manufacturing

Enhance the production efficiency and output by transforming factories to smart factories.



Environment

Protect the environment by using innovating IoT technologies and monitoring with smart devices.



Sustainability

Reach sustainability goals by effective monitoring, controlling and reducing resource utilization.

Innovative Hardware

Plug and play hardware devices for any IoT project

Turnkey IoT Solutions

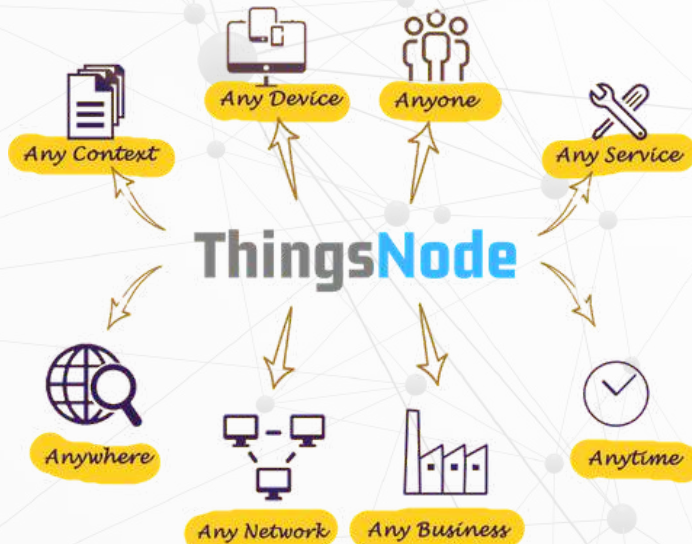
Tailormade solutions for industrial requirements

Expert Consultancy

Professional support for technical problems

Innovative Hardware

ThingsNode offers two models of plug & play, easy to use and innovative hardware for IoT applications. Hardware can be selected based on the solution requirement and both are packed with a ton of features.



Communication Medium

WiFi, NB-IOT, 2G and Lo-Ra



Thingsnode Framework

Device can be configure in minutes



Cloud Connectivity

Supports MQTT,HTTP
Thingsboard & Azure



Powering Options

Power with DC input, battery and solar



Standard Protocols

Connect sensors and machines with MODBUS/ SPI I2C/UART



Over-The-Air Updates

Update your devices remotely

Innovative Hardware



ICS40 is a IoT node device specially designed for industrial controlling and monitoring applications.

- Powered by SAMD21 MCU
- 3 opto-isolated inputs
- 2 relay outputs
- 7-24V DC Supply
- DIN rail/ Wall mount enclosure



IS40-ECO is a IoT node device specially designed for low power industrial monitoring applications.

- Powered by SAMD21 MCU
- Support Li-ion/ Alkaline/ Li-SOCl₂ Batteries*
- Solar or external charging for Li-ion*
- IP65 wall mount enclosure

*Configurable options

ThingsNode Framework



ThingsNode framework is built to hide the complexity of the network communication protocols, modem drivers, sensor drivers and actuator drivers away from the user code to reduce development effort and time.

Quick Configuration

Just configure parameters with our tool or using AT commands and complete your solution with ease. Configuration of modems, cloud platforms and standard sensors are available in framework.

Built for Industry

Integration with standard protocols such as Modbus, MQTT and HTTP is readily available in ThingsNode framework for industrial applications.

Open Source

Open source framework & hardware design with millions of opportunities for developers. Devices can be programmed also using Arduino based PlatformIO



Use Cases

ThingsNode

Agriculture

- Weather Monitoring
- Soil Condition
- Automatic Irrigation
- Fertilizer Level
- Green House

Manufacturing

- Production count
- Performance
- Downtime
- Remote Controlling
- Alarm Generation

Environment

- Air Pollution
- Gas Monitoring
- Weather Monitoring
- Early Warning
- Sound Level

Sustainability

- Energy Monitoring
- Waste monitoring
- Water Quality
- Predictive maintenance





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A & T Labs (PVT) LTD, 258/3, Galvihara Road ,Dehiwala, Sri Lanka

Tele: +94718431962 , email: info@thingsnode.cc

The background features a night cityscape with illuminated buildings and streets. Overlaid on this is a complex network of glowing blue lines connecting numerous small, bright blue nodes, creating a sense of interconnectedness and data flow.

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