

# n|Box IoT Node



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## Description

n|Box IoT Node is designed as a portable compact unit to monitor status or data in any application. It periodically sends collected data to server for monitoring. n|Box IoT Node can transform old offline devices / sensors by adding online data acquisition capability.

n|Box IoT Node is wireless ready and it can read digital (contacts) input, analog input, ModBus TCP (RS-485), 1-wire sensors, and it also has relay output.

Using n|Box IoT Server, customer can access their real time status, data history records, tables/charts and custom data visualizations, it also capable of sending mobile notifications in the event of failure.

IoT : Internet of Things

## System

The n|Box IoT Node System includes the following:

- n|Box IoT Node unit (web interface setup)
- Web based IoT Server (to be installed in remote PC within intranet or in external cloud to allow remote monitoring of multiple n|Box IoT Node units)
- Multiple Android / IOS devices can be set to receive status notification / alerts

## Applications

Multiple monitoring/metering combinations of:  
Power/Energy consumption, Temperature / Humidity, Flow / Pressure, Machine status, Remote On/Off, Generator Set, Water / Fuel consumption, Liquid level, Flood alert, Customized warning condition, and many more

## Features and Benefits

- Capture/digitalize data from any application and send them to data server for monitoring
- Compact portable universal mount box
- Wireless communication (RJ-45 jack is still available)
- MQTT – Lightweight real time data
- SNMP Data collection over IP Networks
- Remote monitoring through web interface
- Mobile notification to Android / IOS devices
- Customizable Data Visualization
- Customizable Reports
- Data Logging



n|Box IoT Node



Customized User Interface

## Technical data

### Hardware

Voltage rating	DC 12...30V AC 230V with adapter
Power consumption	typically 140mA at DC 12V typically 80 mA at DC 30V
Digital Input	4 channel (dry contacts)
Analog Input	2 channel isolated 16 bit
Digital Output	1 channel
RS-485(ModBus TCP) Input	1 channel
1 – wire Input	1 channel ; up to 4 sensors
USB 2.0 port	1 channel
Connectivity	WIFI IEEE 802.11 LAN 10/100 MB Lora with USB dongle
Button	1 x reset button
LED	Power LED
Connector	Pluggable with screw in terminals

### System Data

Processor	ARM cortex A7 Quad core 32 bit
RAM	256 MB
Operating System	Linux
Non volatile storage	8 GB

### Software

http / https	Unit web access Server web access
Mobile Notification	Telegram App (Android / IOS devices)
MQTT	MQTT v3.1 / v3.1.1
SNMP	SNMP v2C / v3
Modbus	RS485 connector



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