

Overview

Indino 4.0 series defines a new way of transforming factories into smart/intelligent factories for efficient and easy remote monitoring operational status of facilities such as on/off status, pressure and temperature. Indino 4.0 supporting for wide range of industrial protocols like Modbus, MQTT, JSON, RESTful, TCP/UDP, SNMP protocol, which makes the monitoring and solution integration, easier than ever for IT engineers through open source APIs.

Features

Processor:

- Tensilica Xtensa 32-bit LX6 microprocessor
- Clock frequency: up to 240 MHZ, up to 600 DMIPS
- ROM: 448 KB SRAM: 520 KB

Co controller:

Atmega 2560, 16MHz, FLASH 256KB / STM32*

Digital IO

- 24v 8x Isolated interrupt Enabled digital input
- 24v 4x Isolated Digital output / PWM
- AC Isolation: 3750VRMS
- Contacts supported: DRY / WET

Wired Connectivity

RS485 MODBUS, RS232 & USB, RDL expansion bus

Memory: FRAM 25KB, SD CARD 32GB

RTC: Built-in RTC for stamped data logging

Wireless connectivity:

- Wi-Fi: 802.11 b/g/n/e/i (802.11n up to 150 Mbit/s)
- Bluetooth: v4.2 Bluetooth Low Energy (BLE)

Protocol:

TCP-IP, UDP, SNMP, MODBUS, FTP, RESTFULL, JSON & MQTT

Security:

- IEEE 802.11 security features: WFA, WPA/WPA2 and WAPI
- Secure boot / Flash encryption
- 1024-bit OTP, up to 768-bit for customers
- Cryptography: AES, SHA-2, RSA, ECC & random number generator (RNG)

Power supply: DC 9-30V

Enclosure:

IP 20 • Mounting: Wall / DIN RailDimension: 108 x 41.2 x 20

Application

- Production and process monitoring.
- Utilities monitoring.
- Condition monitoring.
- Environment monitoring.
- Industrial Smart grid
- Leakage detection.
- Cold storage monitoring.
- District metering.
- Water treatment.
- Generator monitoring.
- Green House.
- Warning message in case of calamities.
- Standard SCADA Applications

Operation Benefits

Indino 4.0 can used to build the custom industrial solution for monitoring and controlling PLC and SCADA, HMI, VFD, Motors, servo, Valves, energy meter, actuators, relays, encoder, rfid and finger print readers, industrial sensors and many more with below mentioned operational benefits.

- Improved productivity.
- Reduced downtime.
- Maximized asset utilization.
- Tracking trends for real-time marketing.
- Enhanced situational awareness.
- Sensor-driven decision analytics.
- Instantaneous control and response in complex autonomous systems.

Remote IO Solution







