



# BUILT TO BOOST CONNECTIVITY TESSOLVE'S IoT BRICKS

Ready Built Hardware & Software Modules Empowering  
A World Of Smarter Possibilities

## Adoption Challenges Persist In Spite Of Modernization Of IoT

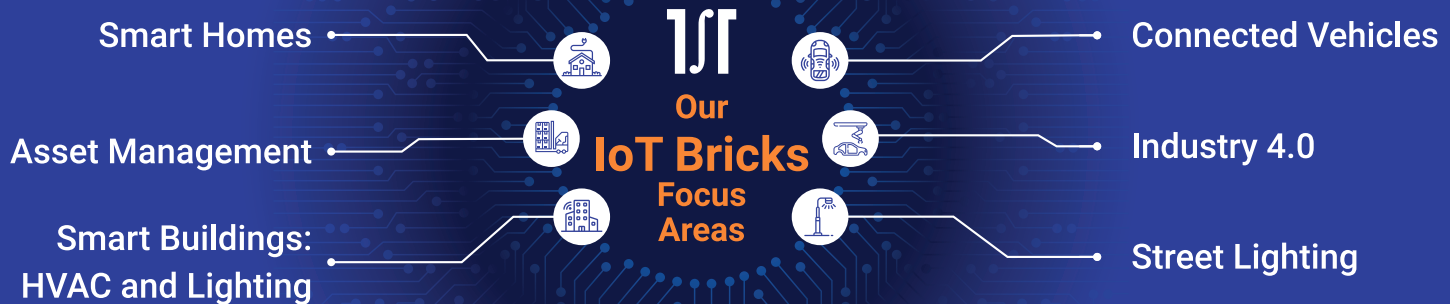
IoT promises to impact every aspect of daily life and businesses. In spite of matured platforms for sensors, connectivity, computation, and cloud, IoT adoption is still challenging with growth not as per market expectations.

### Challenges On The IoT Roadmap

- Every use case and application requires significant customized development
- Higher Product and Solution development costs make it less attractive in terms of RoI for the end customer
- Innovative Startups face a significant challenge in scaling-up
- Security needs are always a tough question posed by end users
- Growing demands, volume manufacturing, quality maintenance, profit pressures affect customer delight and innovation
- Interdisciplinary engineering requirements for solution development demotivates in-house adoption for non-tech organizations

Ready-made secure building blocks of hardware and software modules. They are directly used as an application solution or individually integrated with 3rd party technologies for customized solutions.

### Addressing Adoption Problems With IoT Bricks



# Difficult Possibilities EASED TO OPPORTUNITIES

## Connectivity PAN

- BLE 4.0, 5.0, 5.1
- Zigbee
- Thread
- Wifi
- 6lowPAN

## Backend Software

- Communication broker with MQTT, HTTP
- Device security certificate management
- Device on-boarding
- Device registration serving multiple use cases
- High throughput databases with data normalization
- Flexible APIs for data acquisition for analytics

## Front End Software

- Customizable UI dashboards for different applications
- Mobile and Tablet Apps
- Voice Assistants for Alexa and Google

## WAN

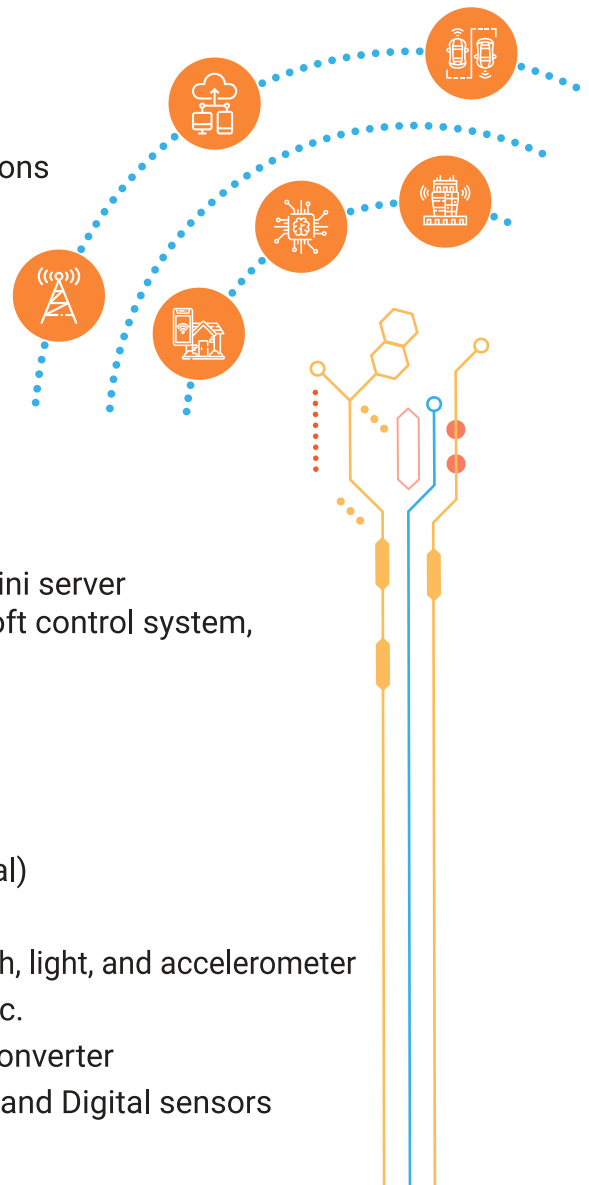
- LTE-M
- LORA
- LTE
- NBIoT

## Network Edge

- Industrial grade hardware secured gateway with mini server computation, data management, edge analytics, soft control system, and local solution diagnostics

## Application Specific Hardware

- Wireless Light control card (Analog, PWM, Dali)
- Occupancy Sensor with Lux and Temp+Rh (Optional)
- Battery operated wireless Temp+Rh, Light Sensor
- Battery operated BLE 5.0, 5.1 sensor tag with temp+rh, light, and accelerometer
- Wireless Environmental sensors for Co2, PM2.5, etc.
- RS485 (MODbus, BACnet) to Thread/Zigbee/BLE converter
- Wireless multiple sensor interface card for Analog and Digital sensors



**From Bricks  
To Benefits**

Faster time to market | Readymade DFM Solutions  
Inbuilt IoT security | Easy to integrate  
At the right price point