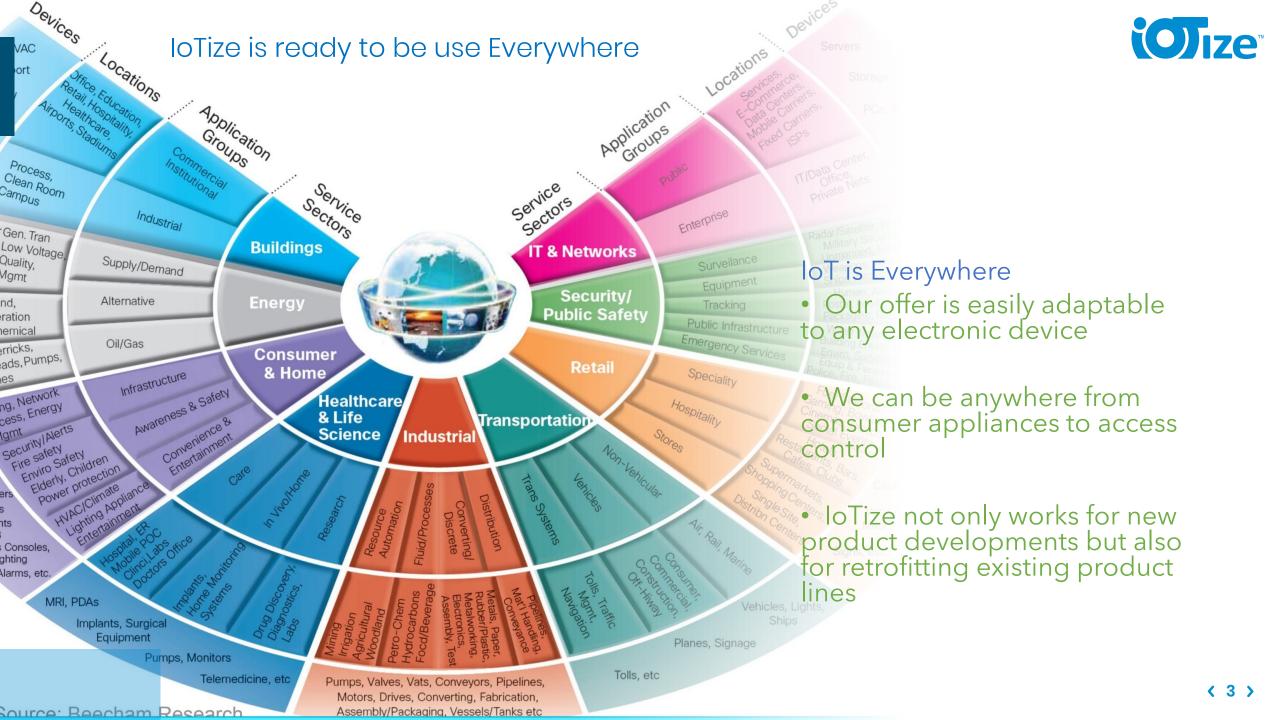
www.iotize.com

Verbalizing loT



Every second—127 new IoT devices are connected to the web.





Our lives revolve around the cell phone





With

TapNLink: Plug'n Play Solution for Manufacturers

We eliminate the complexity of IoTizing a product

Without **TapNLink: Multi-expert** team, long development & high risk.

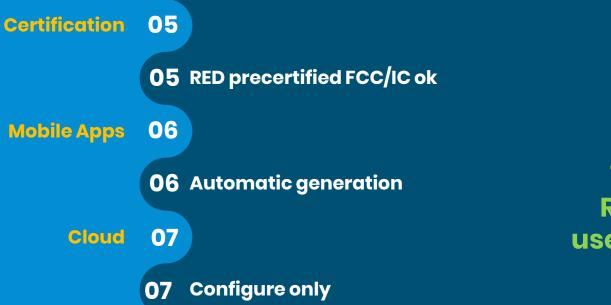




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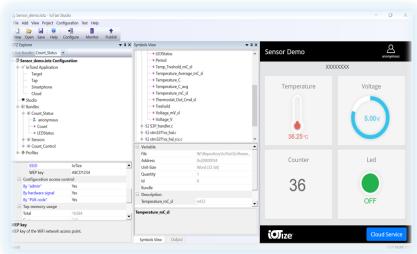
With TapNLink: Ready-to-use solution.



Manages All Aspects: What Does this Mean?



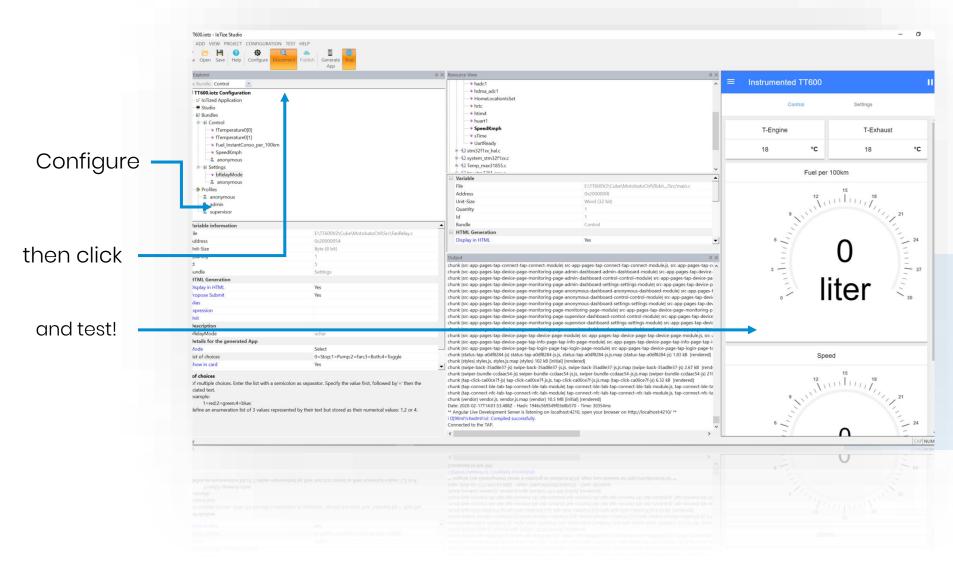
- No programming
- Fits any microcontroller
- Secure firmware updates
- Standard connectors
- Only two signals
- Low energy consumption
- Size optimization
- Optional casing
- Customizable



- Integrated antennas
- End-to-end security
- Certification
- Automatic app generator
- Access control management
- APIs for iOS, Android, Win10, ...
- Cyber-security
- MQTT
- Open source solution



Automatic APK/IPA generator



Three versions:

- 1 APP One Device
- Static 1 App 3 Devices
- Dynamic 1 App Multiple Devices



Innovations





Innovative Characteristics



Mastery of NFC

Intuitive app launcher

Automatic pairing for BLE / WiFi

Secure authentication

Low energy consumption

Reduced radio emissions

Low-cost solution

NFC-only: 3-stroke mode



Innovative Characteristics



END-to-END SOLUTION

Firmware Integration

Security

Simple Mechanical Integration

Secured Multi Channel Wireless Options

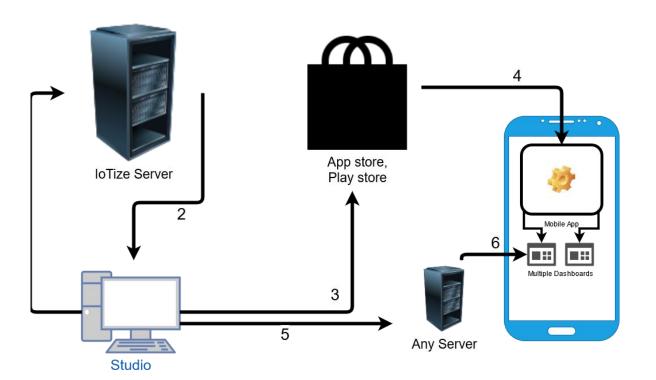
International Certifications

No Code Mobile Apps

Cloud connectivity + MQTT



A single App with dynamic dashboards









Heating System Example: How TapNLink's Are Used

3-stroke configuration

We offer unique solutions in the Market



With NFC-only
With NFC+WiFi or NFC+BLE





STEP 01

Read settings
Tap-to-launch & pair



STEP 02



Edit settings Edit settings



Save settings Update remotely



Heating System Example: Enhanced User Experience!

We Improved UX





Products that match market requirements







TapNLink

- Connects to any microcontroller
- Radio variants: BLE / WiFi / LoRa
- Target connections: S3P / UART / SWD
- For new designs or retrofit

TapNPass

- Retrofit for wire fieldbus systems
- Interface RS-232, RS-485, USB serial
- Embeds TapNLink
- Fix or Nomad casing



Complete, Adaptable Offer



PLUG

• SWD

- For Cortex-M MCUs
- 5-minute PoC
- Retrofit without modification
- S3P
- Universal
- Secure
- Two GPIOs only
- UART
- With or without Modbus
- Legacy solution for industry
- Requires a UART





GENERATE

HTML

- Automatic generation
- Enabled by 'Tap Manager'
- 5-minute solution
- Ionic
- Automatic generation
- Ready to publish
- IOS / Android / Windows 10
- APIs
- For existing apps
- iOS, Android, Cordova
- Connections & security communication



CONNECT

• NFC-only (N)

- Ideal for configuration
- Low-cost solution
- 3-stroke configuration
- Zero power consumption
- NFC + BLE (B)
- Ideal for local sessions
- Efficient combination with NFC
- Low power solution
- NFC + Wi-Fi (W)
- Access point or station modes
- Alarm generation
- Remote control via MQTT



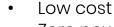


Module Types

NFC-only

Ideal for configuration only

- Low-cost heaters
- Muted equipment: fridge,...
- Sensors
- Configured-once' devices



• Zero power

NFC + BLE

Ideal for local sessions with monitoring

- Replacement of PC by mobiles (protection relays)
- Possible remote control via a relaying mobile (gas boiler)

- · App launch, pairing
- Cybersecurity
- Wakeup by NFC

NFC + Wi-Fi

Local + remote access (+alarms)

- High-end heaters,
- Existing Wi-Fi network (appliances)

- Network settings (SSID, ...)
- · Launch, pairing
- Cybersecurity
- Wakeup by NFC

NFC + LoRa (+BLE)

Local + remote access (+alarms)

- Industrial plants
- Low Power

- Local HMI
- LoRa configuration





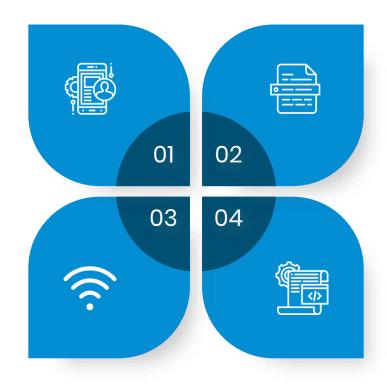
Advanced features

Automated mobile app generation

- Generates apps for iOS/Android/Windows.
- Local or on-line versions

TapNLink NFC/Wi-Fi with MQTT

- Remote sessions or single packets
 through MQTT
- Support the popular IoT platforms



Firmware update and remote debugging

- FW update for TapNLink.
- Target FW updates and debug capabilities (for STM32s),
- SVD files support.

Embedded Java Virtual Machine

- Allow complex conditions for alarms
- Adapt variables formats to any MQTT platform

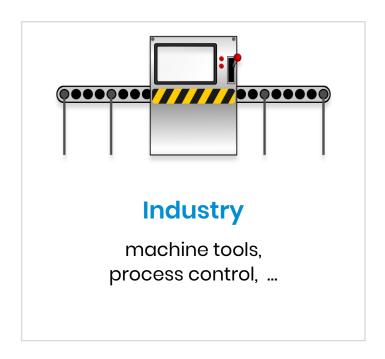


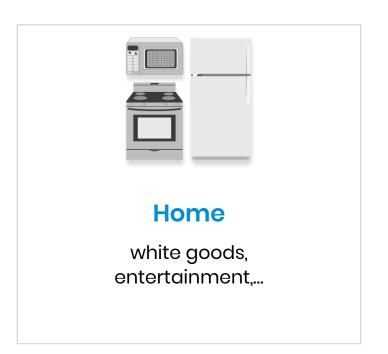
A Mass Market Solution





Generic Offer for Multiple Markets













Air Liquide

Remote LoRa Interface
AL proprietary protocol
Local NFC/BLE control



Schneider Electric

TapNPass adaptation

Versions 'Blutooth/WiFi'



Cotherm

Replace LCD/keyboard NFC-only 3-stroke configuration



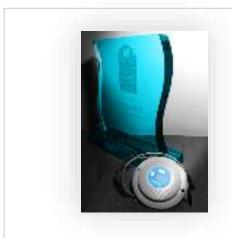
International Recognition



Embedded World Nuremberg Hardware innovation of the year



Salon Cartes
Cannes
IoT Solution of the year



NFC Forum 2018 and 2020 Best Emerging Concept Best NFC application





If your products look still as if they were manufactured last Century....

Perhaps we can help....

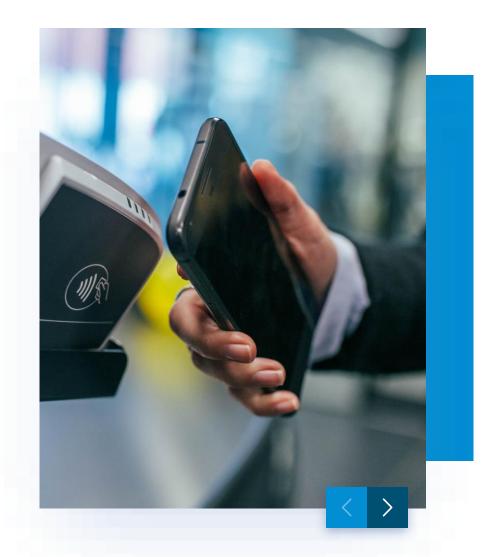






Today: NFC boom

- New apps for payment and transportation make NFC familiar
- Most Android devices now support NFC
- September 2019:
 - 19/09: iOS13: IoTize products now on iPhone!
 - 24/09: Paris metro adopts NFC ticketing





Would you rather go through a long exhausting project with less than 15% Hardware chance of being successful, on time and on budget..... **Embedded** 6 Antennas Software Integration Cyber Security 5 Mobile **Applications** Certification

....Or would you rather use or End-to-End IoT solution and save money, time and resources?

