

Brickcom

**Azure Ready 4G-WiFi-BLE
IoT Modules & Applications**

2022 Aug.

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www.brickcom.com



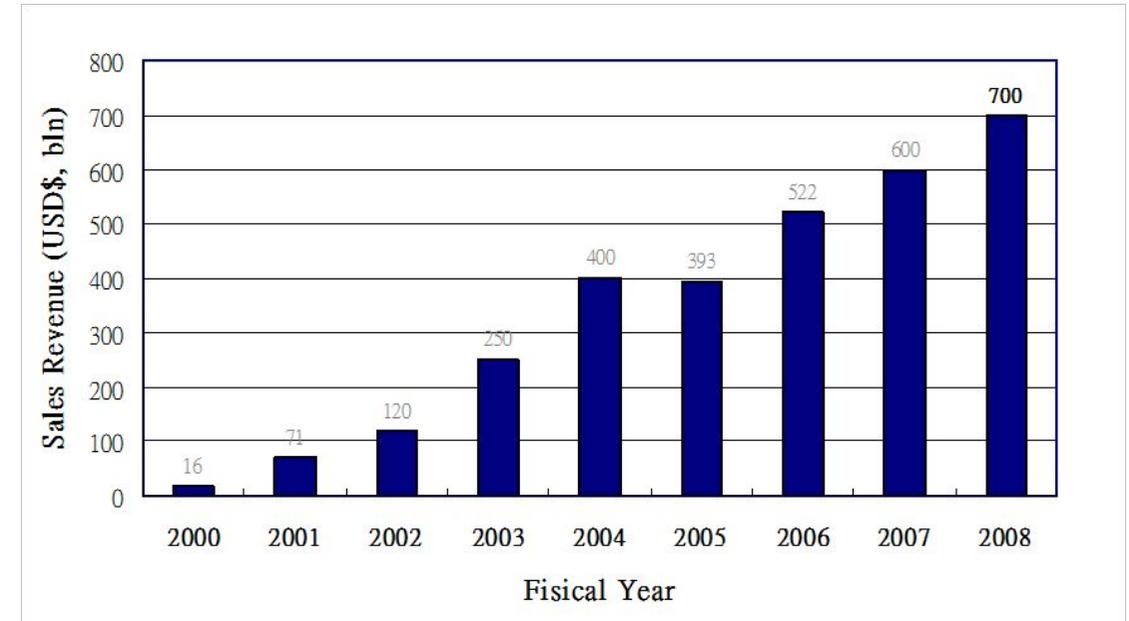
About Brickcom

Headquartered in Taiwan

Brickcom management team had spent 10 years to grow wireless biz from \$0 to \$1B in Gemtek.

Spin off from Gemtek, 2009

Brickcom focus on Wireless, Video Cameras, Storage System, Network Equipment, IoT products and cloud integrated solution.



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Always be the Technology Leader

- First launch 802.11b AP in SOHO market (2000)
- First launch 802.11b USB in SOHO market (2001)
- First 100% dedicated in WLAN player to be listed on the TAISDAQ (2002 Q1)
- First launch 802.11a+g product in the world (2003)
- First launch 802.11n Router/Clients in the world (2006 Q1)
- First launch 16d WiMAX Indoor /outdoor CPE (2006 Q1)
- First launch 802.11n dual band USB in the world (2007 Q2)
- First launch 16e Wave 2 Indoor/outdoor CPE (2008 Q1)
- First launch 802.11n 1x1 USB in the world (2008 Q1)
- **First launch IP Surveillance Camera Solution (2009)**
- **First launch 360 degrees Panorama Camera Solution (2013)**
- **First launch 3 years battery life IoT Environment Sensor (2015)**
- **Longest battery-life long range Wi-Fi Battery Camera (2017)**
- **Longest Power LTE Battery Camera (2017)**
- **High Integrated Edge AI IOT Solution ...and More... (2018)**

Leading on the
Battery WiFi IoT
3 Years
Battery Life



Why Azure?



Azure IoT Plug and Play



Products Empowered by Brickcom's Azure IoT Module



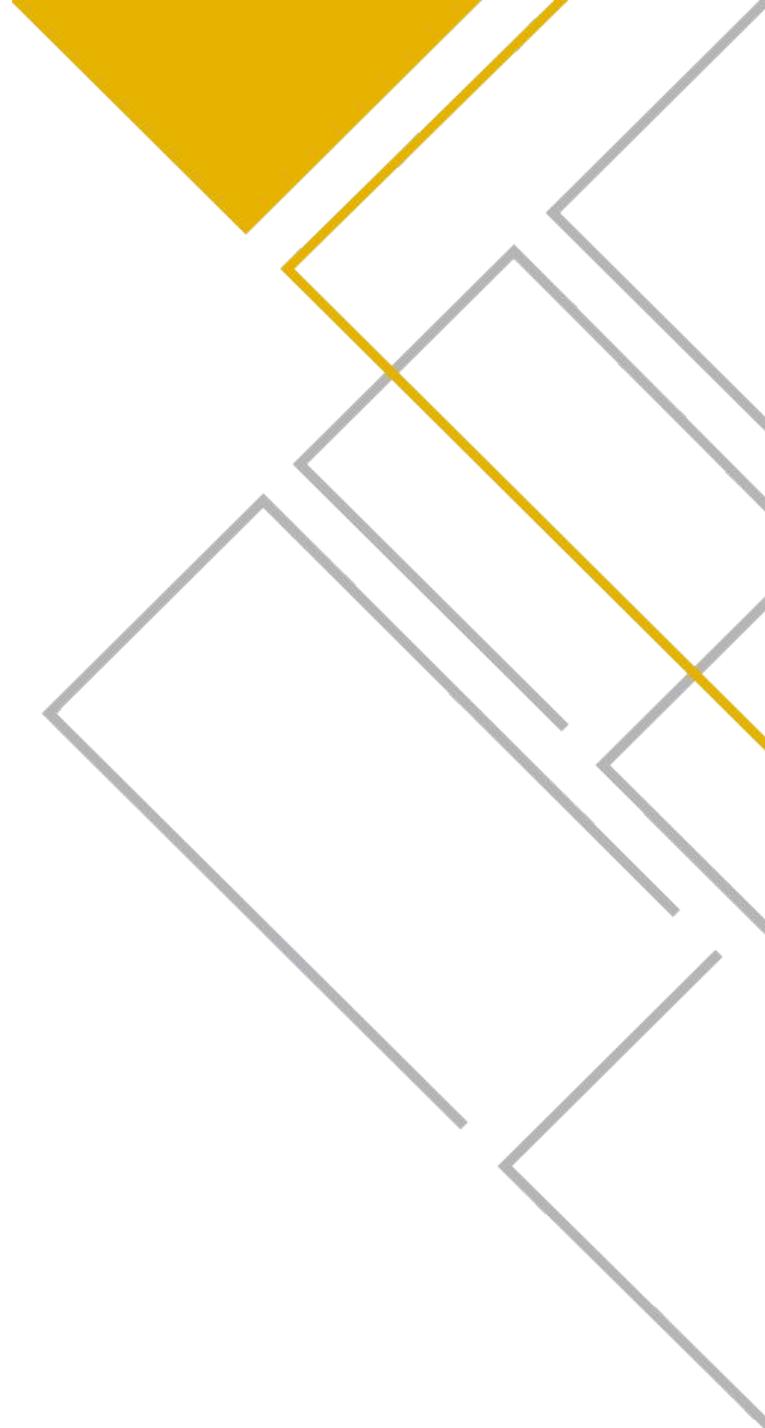
Live Demo



How Do I Make My Products Azure IoT Plug and Play?

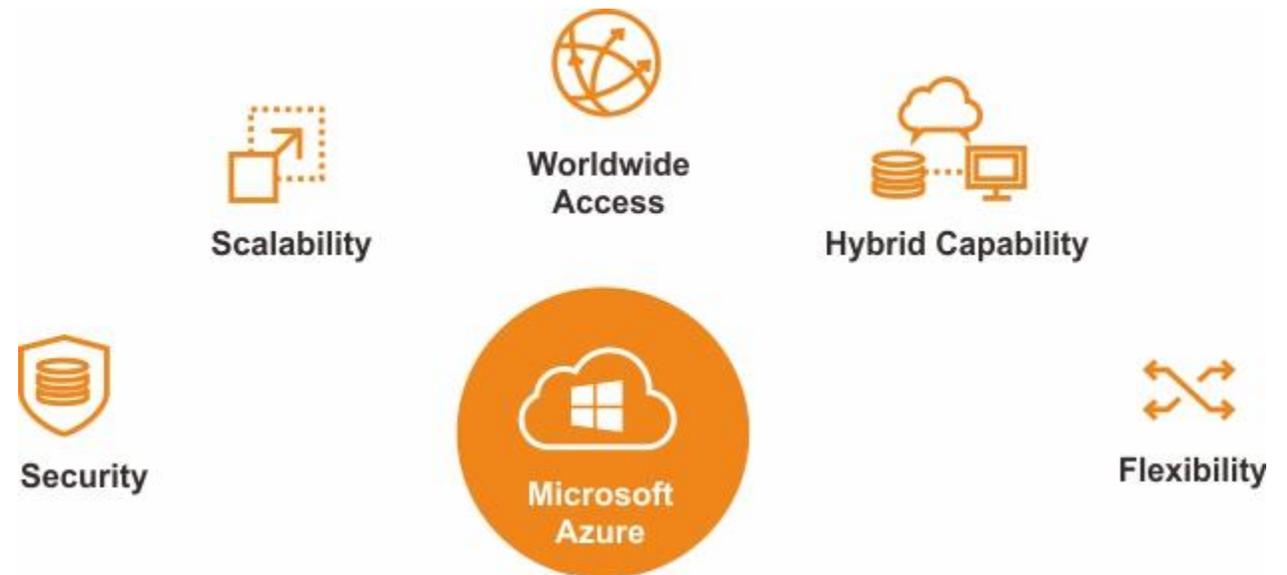


Fast to Build by Brickcom's Azure IoT Module



Why Azure?

- ◆ IoT Plug & Play
- ◆ Able to manage over 1 billion devices
- ◆ Hybrid clouds
- ◆ 95% of Fortune 500 companies are scaling with Azure already
- ◆ 1 billion USD security investment per year
- ◆ Strong network and data security



Why Azure - Solution



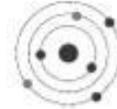
Financial services

Personalize customer experiences, modernize financial systems, and optimize risk management.



Government

Implement remote government access, empower cross-agency collaboration, and deliver secure services.



Healthcare

Enhance patient engagement, empower provider collaboration, and improve operational insights.



Manufacturing

Uncover new operational efficiencies, reduce costs, and generate new revenue opportunities.



Retail

Personalize customer experiences, empower your employees, and optimize supply chains.



Energy

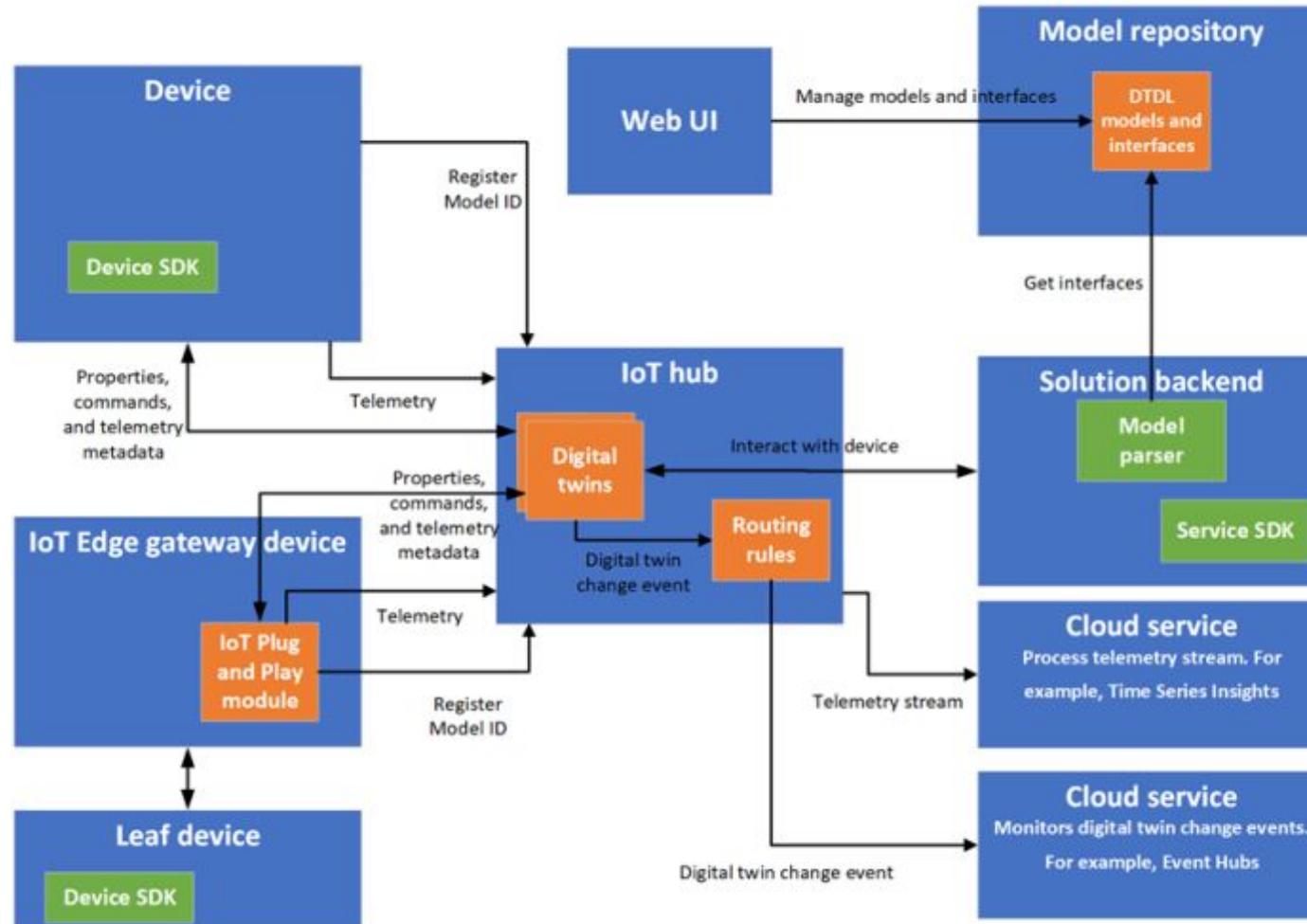
Optimize everything from field work to customer experiences to speed response rates and reduce costs.



Media and entertainment

Create content more quickly, collaborate from everywhere, and deliver seamless customer experiences.

Azure IoT Plug and Play Solution



Azure IoT Plug and Play: 2 Kinds of Builders

- A *solution builder* is responsible for developing an IoT solution using Azure IoT Hub and other Azure resources, and for identifying IoT devices to integrate.
- A *device builder* creates the code that runs on a device connected to your solution. Start the certification process to place your Azure validated devices in the Azure Certified Device Catalog to increase product visibility and connect with customers.

Products Empowered by Brickcom's Azure IoT Module



Battery Water Leak/ Temperature/ Humidity Detector

- Azure cloud ready
- Battery life up to 3 years with 3 AA batteries
- BLE for setup
- WiFi Internet



Battery Powered CO2 Detector

- Azure cloud ready
- IEEE 802.11ah (Halow)
- Battery life up to 3 years with 3 AA batteries
- Siren
- BLE for setup
- WiFi Internet



Battery Powered WiFi Motion Sensor

- Azure cloud ready
- Small and compact
- Works with no wires
- BLE for setup
- Able to monitor the status (ex. remaining battery) of multiple devices on Azure



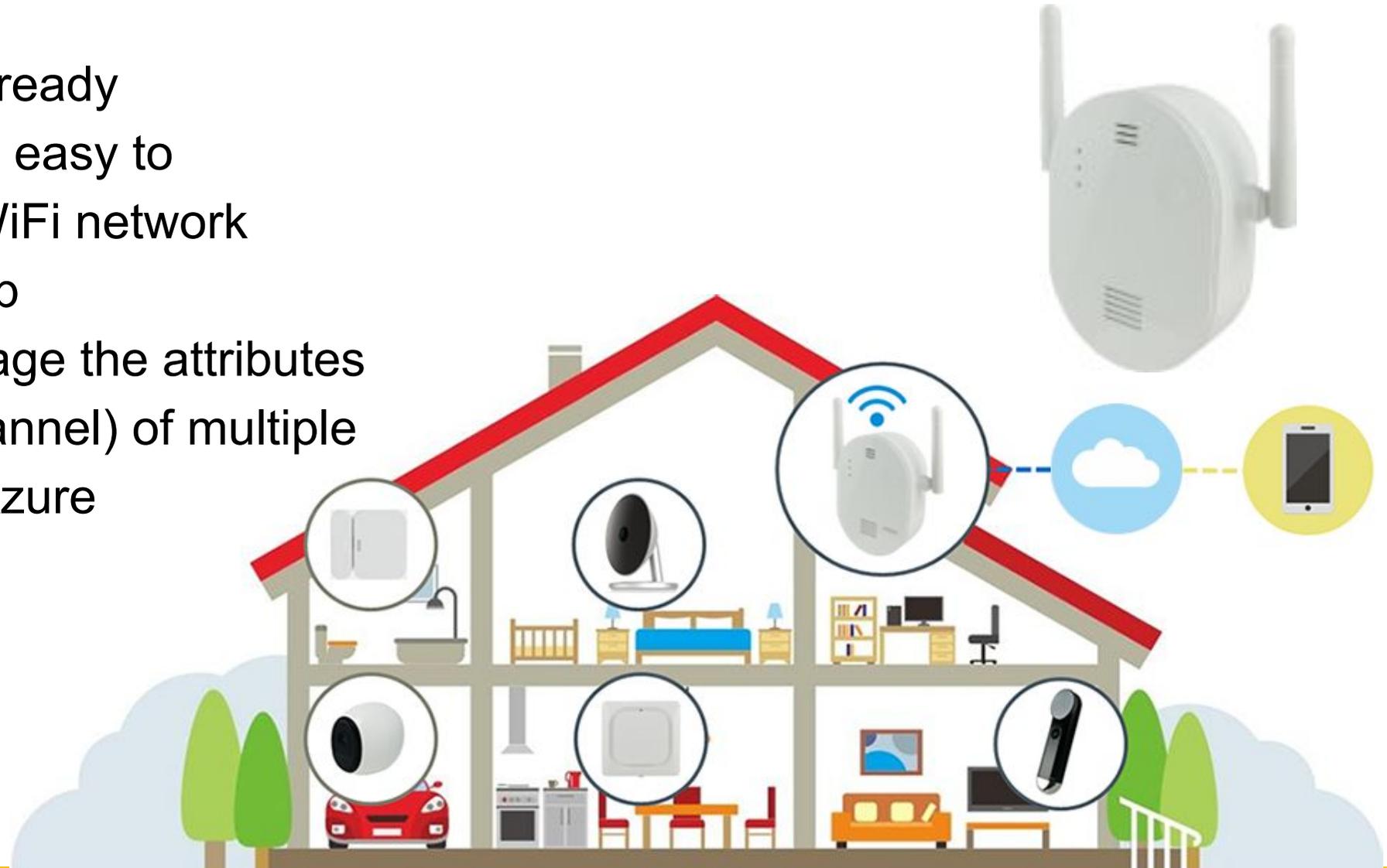
WiFi/BLE or 4G/BLE Bridge

- Receives the Azure cloud commands and sends them to the paired BLE devices
- A BLE device locally managed by a BLE controller (ex. a mobile phone) can become Azure-cloud-managed with the bridge
- Azure cloud ready
- WiFi or 4G Internet

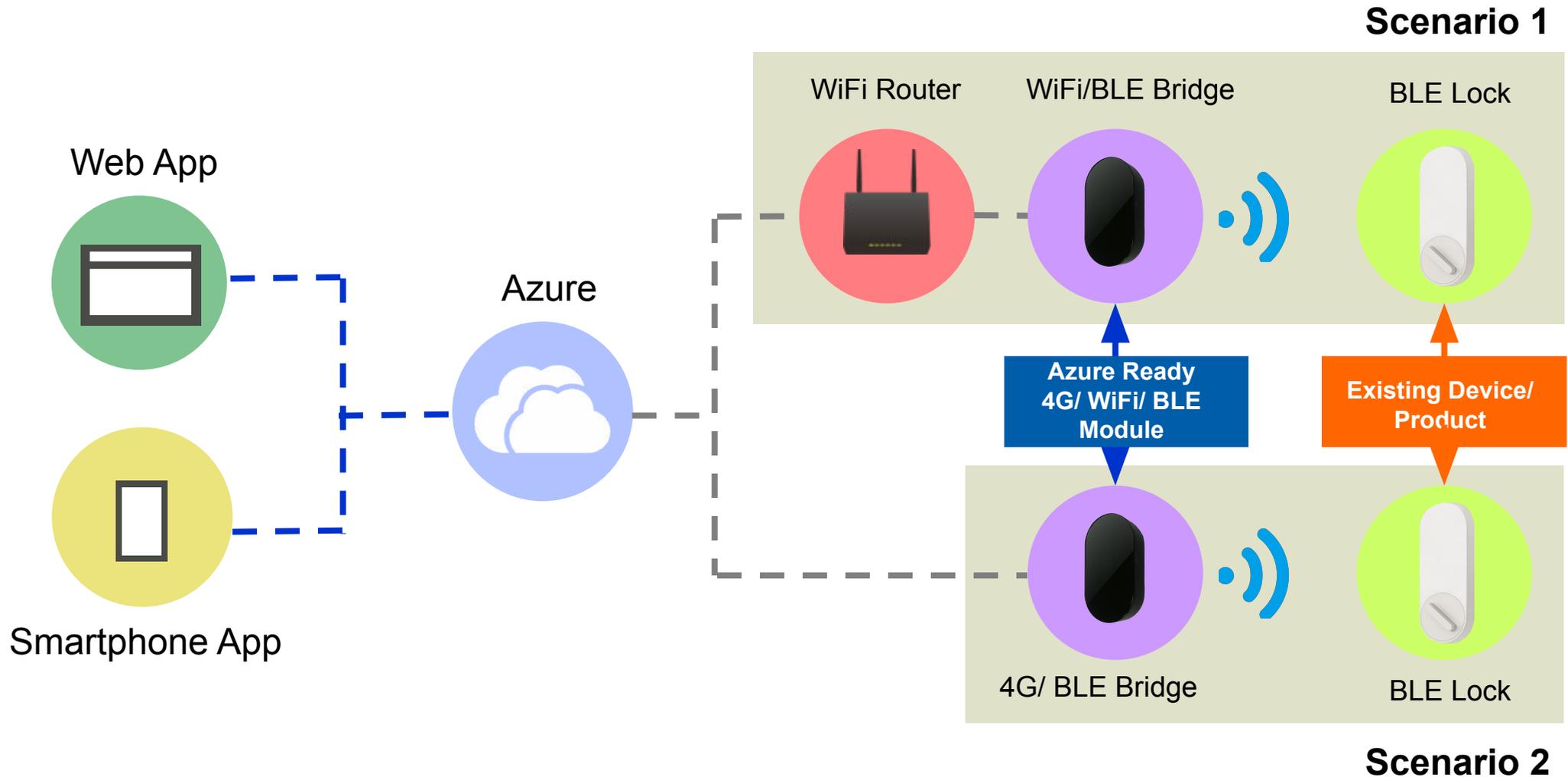


WiFi AP/ Repeater

- Azure cloud ready
- Portable and easy to extend the WiFi network
- BLE for setup
- Able to manage the attributes (ex. WiFi channel) of multiple devices on Azure



Live Demo



Shop Online with Nuvoton Direct eStore

- Features:
 - **No MOQ.** Order valid with even one IC.
 - **Shorter Lead time.** When you place order, we get the goods ready.
 - **One stop shop.** Explore full Nuvoton product list.
- Join Now:
 - Go to <https://direct.nuvoton.com>
 - Scan Direct Qrcode
 - **Register NOW until 8/31,**
you can get 20% off coupon.
(the coupon will be valid until 9/23)



How Do I Make My Products Azure IoT Plug and Play?

- Spend weeks/months understanding how Azure cloud works?
- Spend weeks/months learning Azure cloud developer's tool?
- Spend months re-designing products and getting them certified?

Isn't there any ready solution for me to quickly adopt and integrate and deploy?

→ Yes, Brickcom has the solution!

→ Brickcom's solution drives months of work down to days or even hours!

Brickcom's Azure Ready IoT Modules

- Fast Time to Market: Easy integration to existing product with Brickcom's SDK
- Azure IoT Plug and Play
- WiFi/4G Internet
- Compact size **19 mm x 32.5 mm**
- Ultra-low power consumption to achieve longest battery life
- Fast boot

Fast Approach to Build Azure Ready Products by Brickcom's Azure IoT Module



Brickcom Azure Ready IoT - DK Board

IoT
WiFi/BLE
Azure DK
Board

Azure Certified Device catalog

[← Previous page](#)

Brickcom_M487

By 金磚通訊科技股份有限公司



Product type
Geo Availability
Target industries
Operating Systems

Sensor
Worldwide
Automotive, Manufacturing, Smart_Buildings
Other ()

[Shop](#)

1 distributor(s)

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IoT Plug and Play Model

Search or jump to... Pull requests Issues Marketplace Explore

Azure / **iot-plugandplay-models** Public Watch 14 Fork 197 Star 39

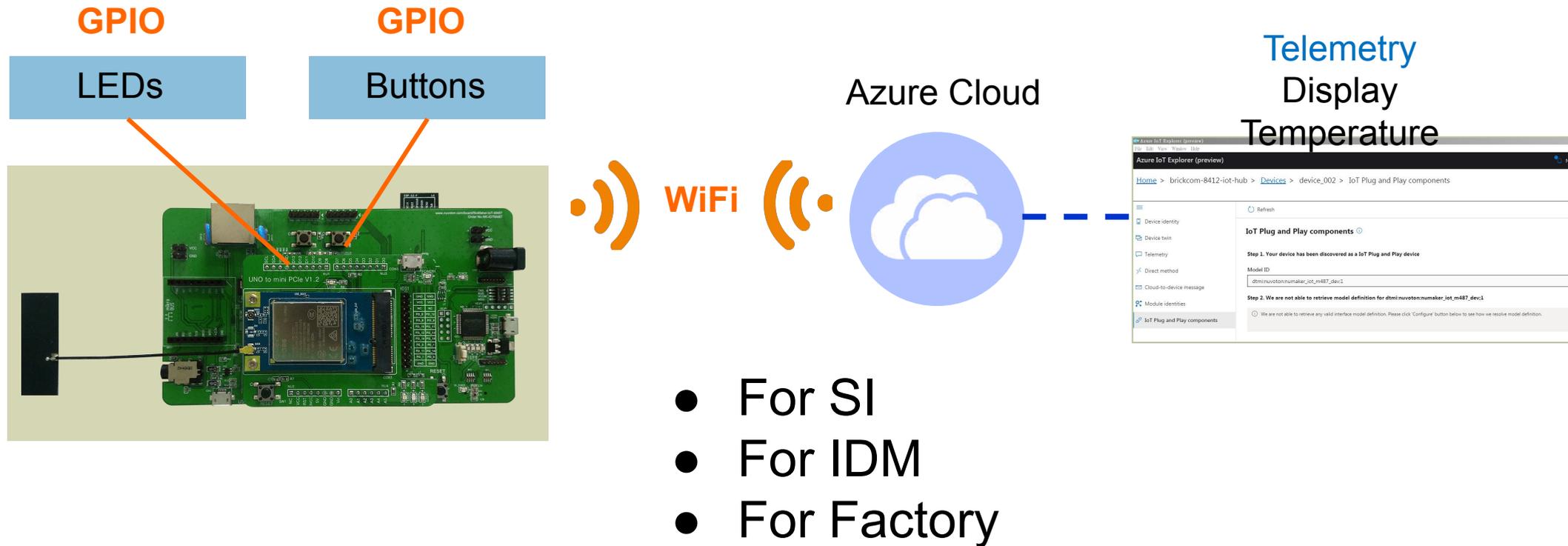
Code Issues 2 Pull requests Actions Projects Wiki Security Insights

main iot-plugandplay-models / dtmi / brickcom / Go to file Add file ...

hy-tsai-brickcom Add a new JSON (#370) 81e6b43 on 5 Oct 2021 History

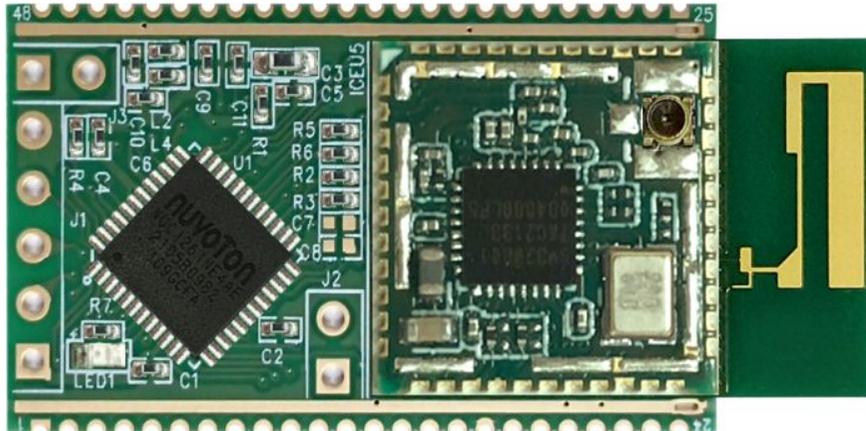
brickcom_m487_dev-1.json Add a new JSON (#370) 10 months ago

IoT Plug and Play Model



- For SI
- For IDM
- For Factory

Azure WiFi/BLE IoT Module: ITM-2262-AZURE



Major Features

Azure Ready

WiFi/BLE5.0

File System

Cloud OTA

Different Sensors

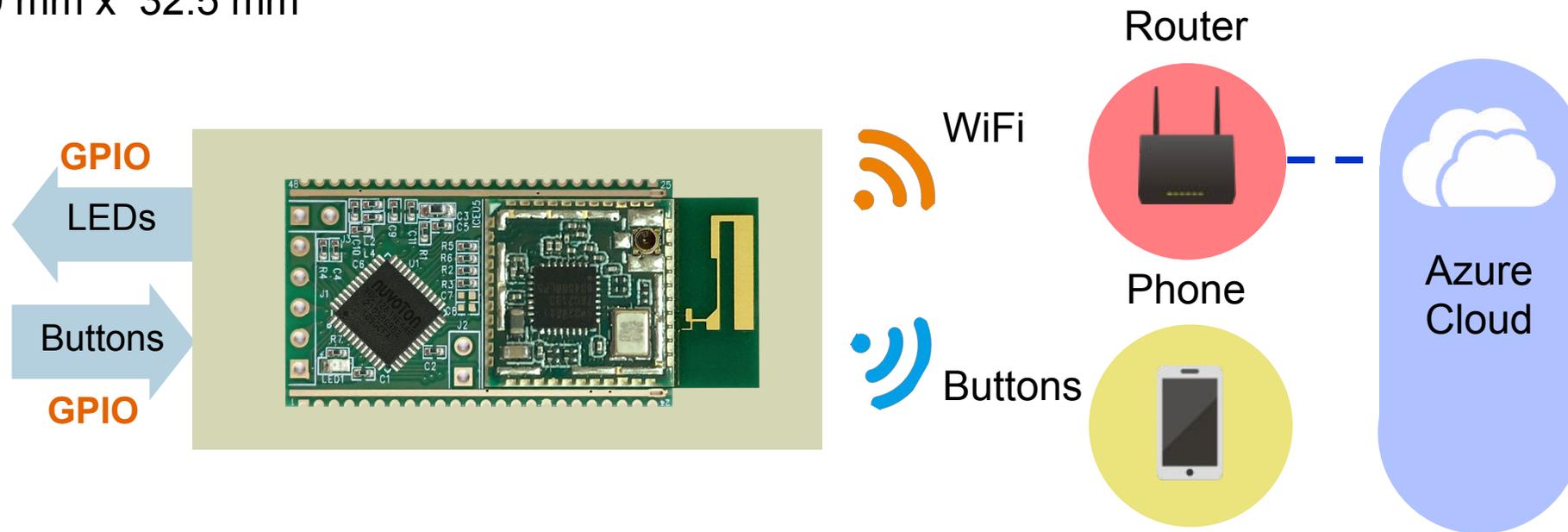
RS-485(Modbus)/UART/I2C/SPI/GPIO

Azure WiFi/BLE IoT Module: ITM-2262-AZURE

Azure WiFi/BLE IoT Module

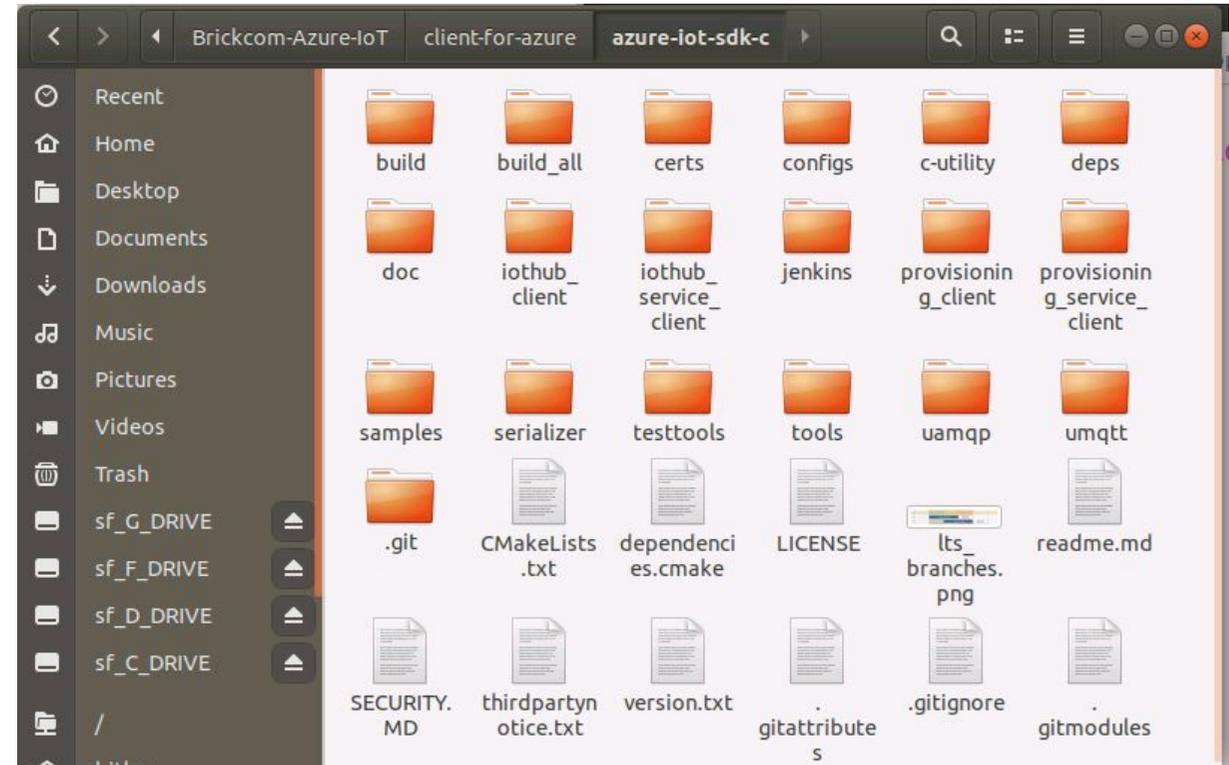
- *Azure ready and certified
- *Easy to add features

Nuvoton M48x + 11b/g/n + BLE
Size: 19 mm x 32.5 mm



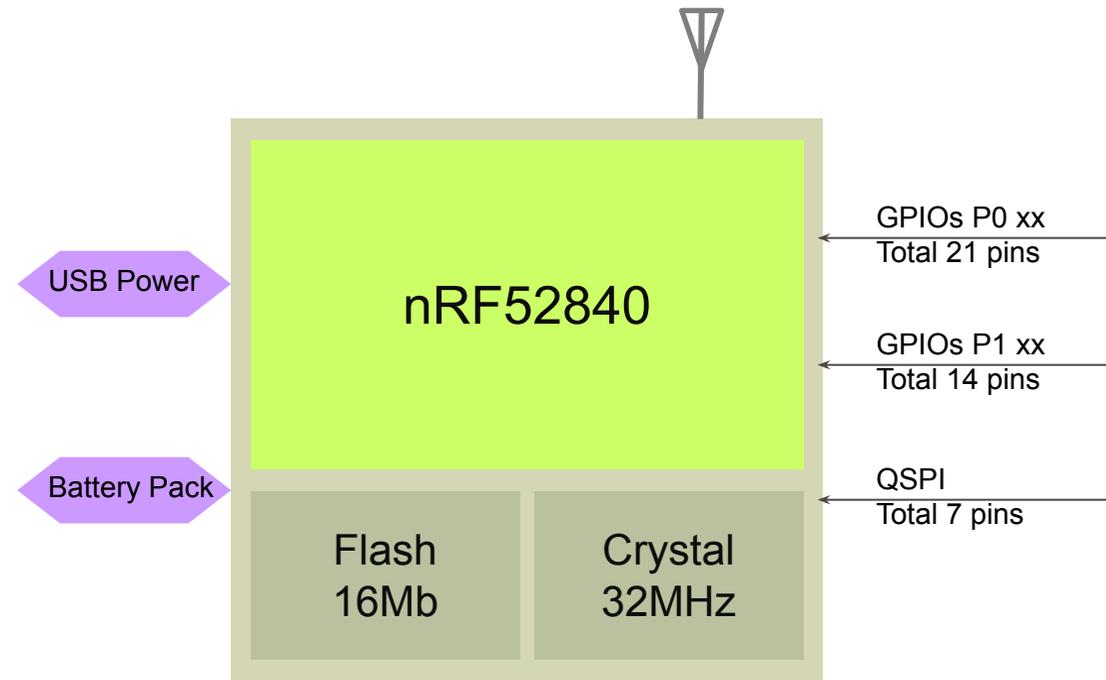
Azure WiFi/BLE IoT Module, mbedOS SDK

- Use SDK as the base
- C code to complete features needed. (GCC/Make)
- Easy and fast integration



Super Small Footprint Azure BLE Module ITM8410

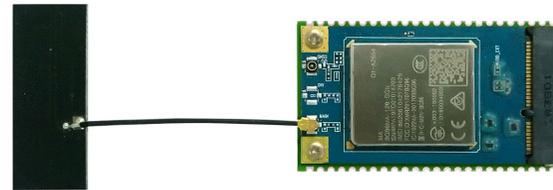
- Nordic nRF52840 inside
- Extra 2MB flash added
- 6.5mm x 6.5mm x 1.6mm



Brickcom Azure Ready Solution



ITM-M487-DK
(Azure Develop board)
Azure CERTIFIED DEVICE



ITM-2263-Azure
Azure 4G/WiFi/BLE IoT module



ITM-2262-Azure
Azure WiFi/BLE IoT module

Free Offer - Azure Ready Demo Kit

- **Features:**

- Experience the easy WiFi Azure ready IoT board
- Control devices via BLE and GPIO from Azure cloud

- **Join Now:**

- Scan the right-hand-side QR code to register

- **Web Site: Slide Download Link:**



Get Sample



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THANK YOU

BRICKCOM,
YOUR BEST PARTNER