

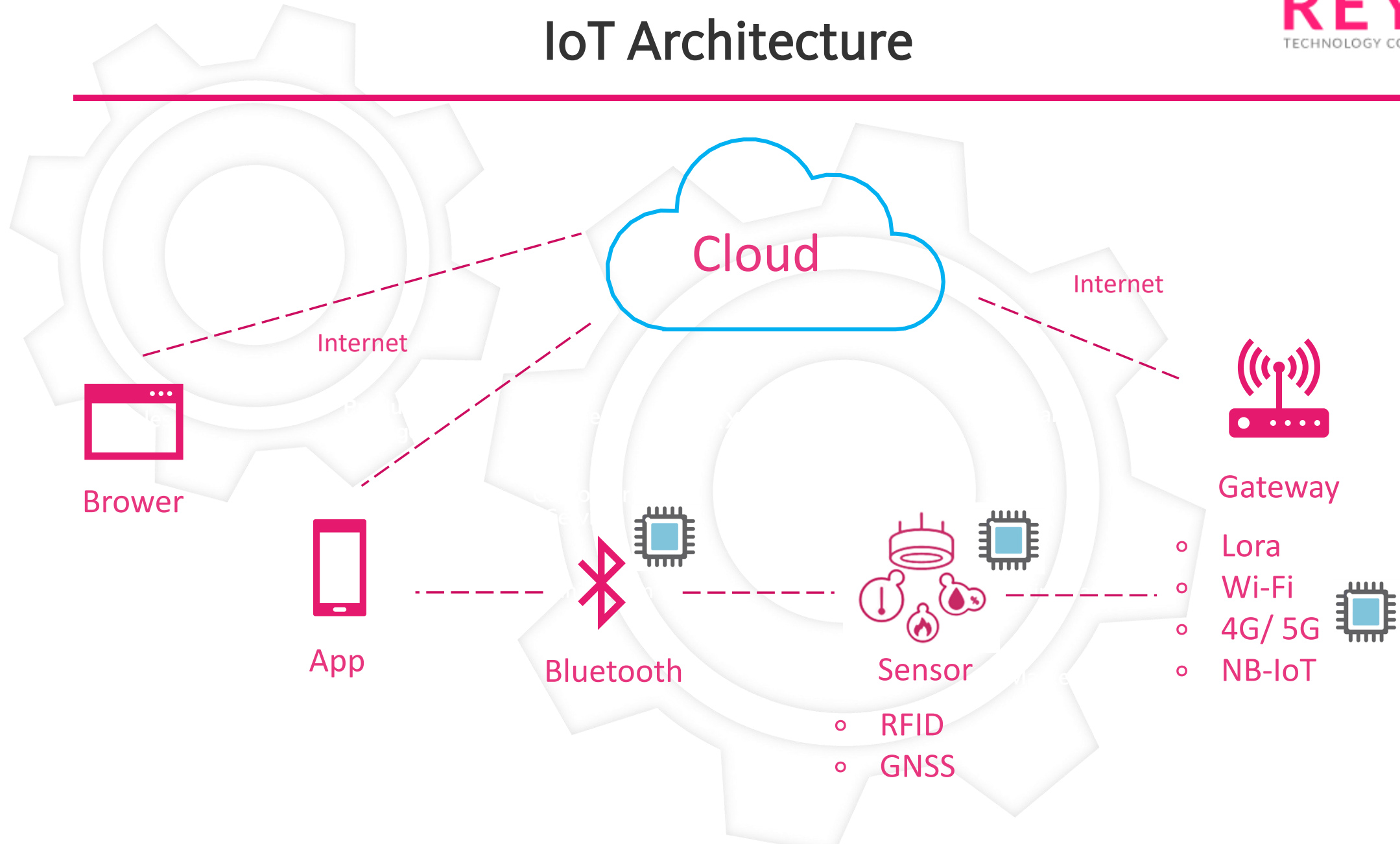
# REYAX RYC1001

## MQTT Cloud Platform for IoT



**REYAX**  
TECHNOLOGY CO., LTD.

# IoT Architecture



# Connection problems between IoT terminal products and mobile phones



How to switch the fan in the factory from a long distance away?



How to know the temperature of the factory from a long distance away?  
What is your IP of the smartphone?



Honestly, you need a cloud.

# The price of a cloud



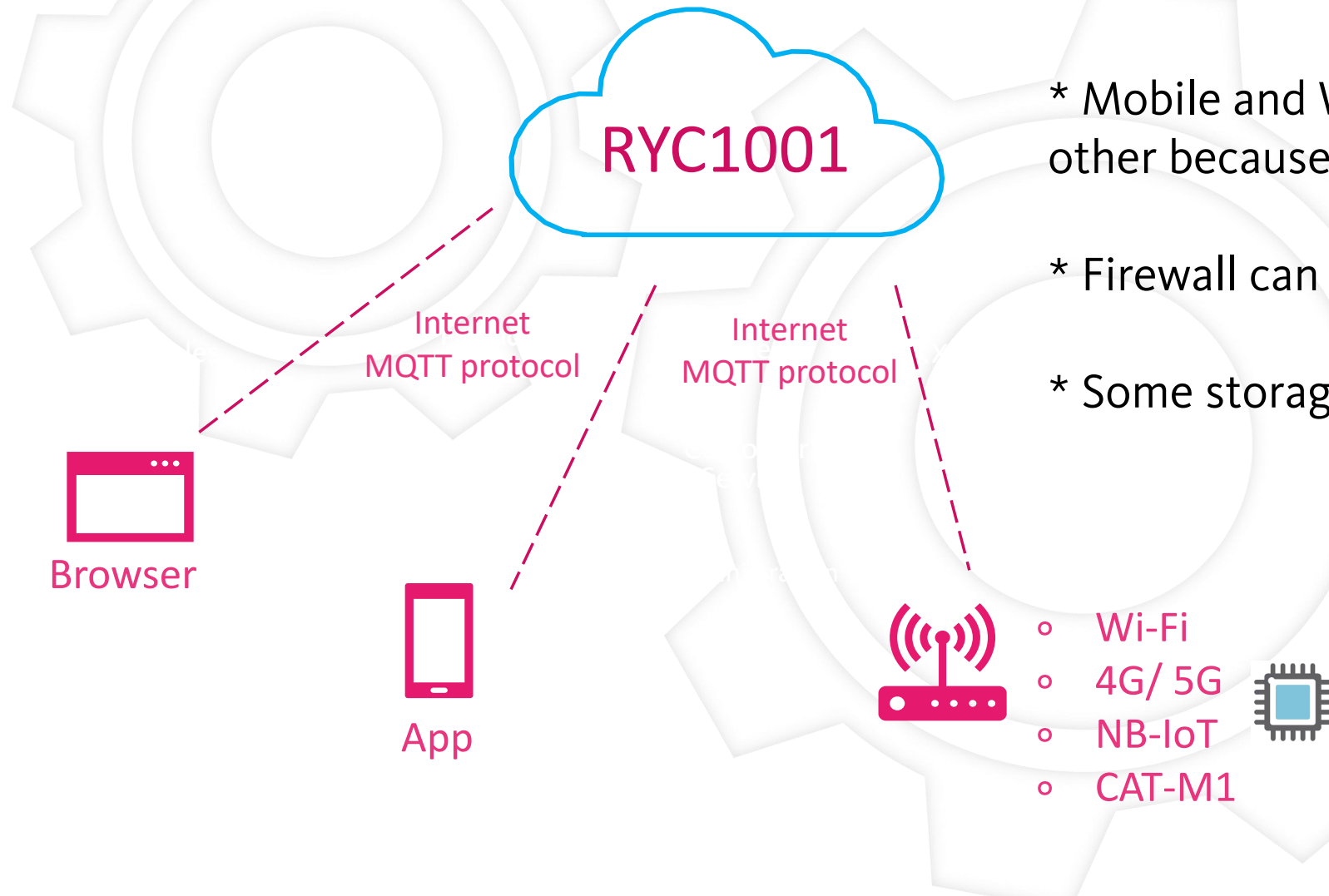
You need more than 2 mature IT engineers.

In 1 year? Are you sure you can make it?

Also, it costs at least  
USD\$100,000~\$200,000/per year.



# RYC1001 solves the connection problems of IoT terminal products



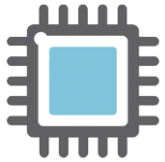
- \* Mobile and Wi-Fi devices cannot find each other because of floating IP.
- \* Firewall can not connect across regions.
- \* Some storage problems of the small data.

- o Wi-Fi
- o 4G/ 5G
- o NB-IoT
- o CAT-M1

# The device and software you need to prepare before using RYC1001



A Wi-Fi or mobile communication module with MQTT function.  
\*REYAX prepares a lot of module instructions for you.



A Wi-Fi or mobile communication module which is capable to use Micro Processor to control MQTT functions.



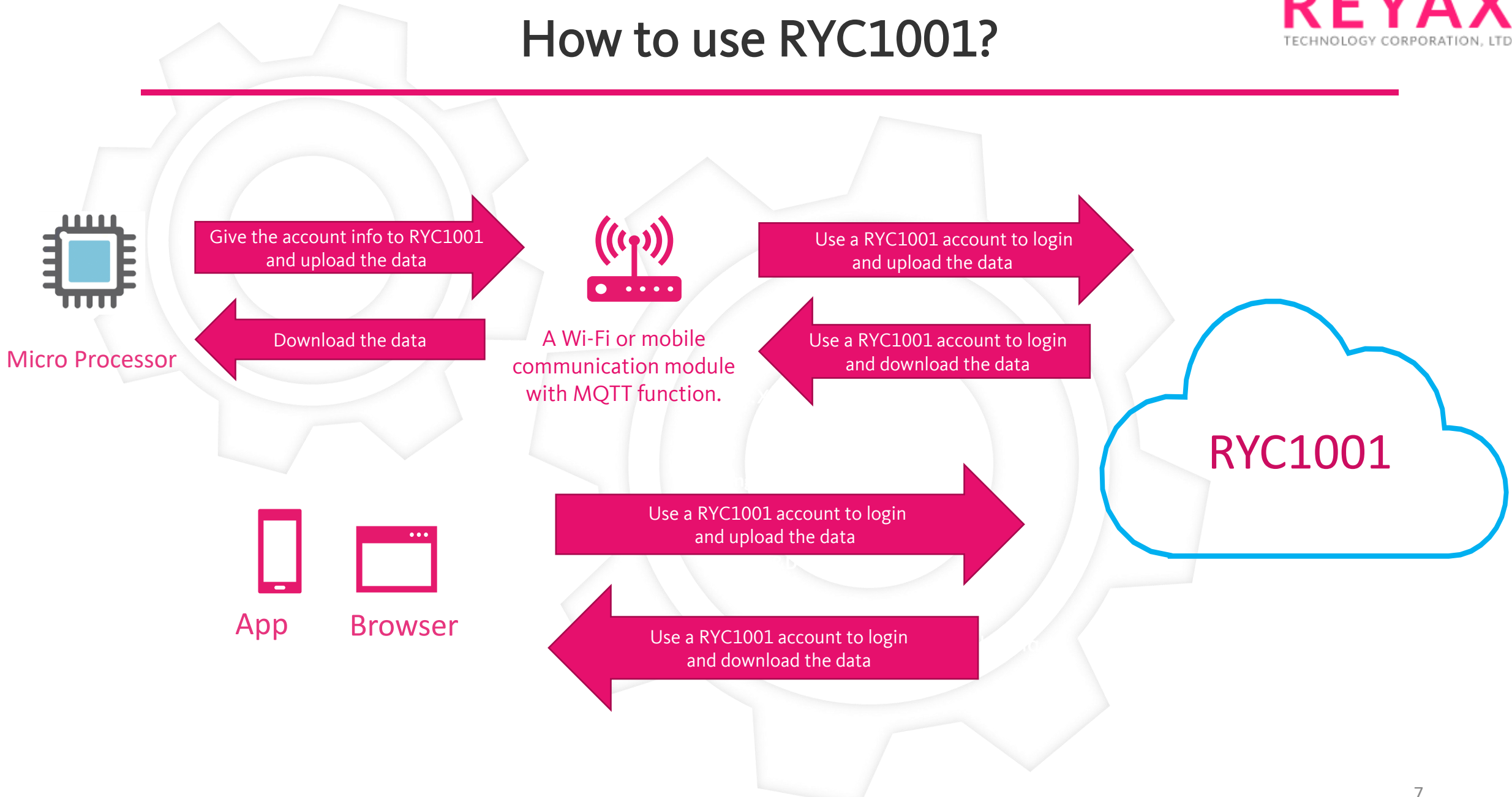
App



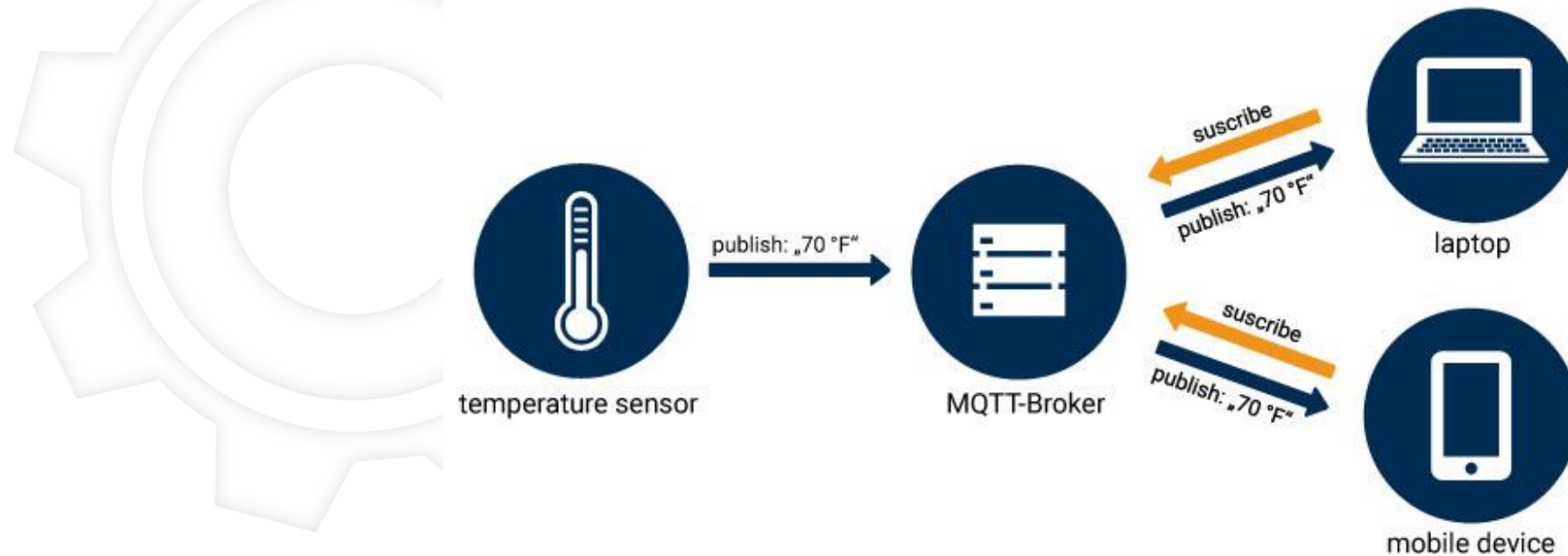
Browser

The ability to modify App or browser.  
\*REYAX prepares the source code for you.

# How to use RYC1001?



# Benefits of RYC1001 using MQTT protocol



The MQTT protocol uses the Subscribe and Publish system. When Subscribed Notification or Commands is published, and conforms to the subscription Topic, MQTT Broker will take the initiative to notify subscribers, so subscribers do not need to continue to ask actively and save power consumption and transmission volume.

**Features of RYC1001:** The records of these events and commands will be recorded in the database. You can use the `<commandId>` provided by the system to search and modify the stored data.



# After login the account, only 3 steps and you can run RYC1001

```
graph LR; A[Log in RYC1001 by username, password.. ect.] --> B[Subscribe the Topic]; B --> C[Waiting for the Topic to be Published];
```

Log in RYC1001 by  
username,  
password.. ect.

Subscribe the Topic

Waiting for  
the Topic  
to be Published

# Construct with the files will ensure success

- \* The documents are simple and easy to understand: Just fill in the correct parameters in the designated color box.
- \* Continuous increases the application examples of the mainstream communication modules.

Subscribe to the topic "api/command\_update/<Network\_ID>/#": This topic is defined by this platform service to receive command\_update messages.

When Publish is executed, the received format is as follows:

```
{
  "action": "command/insert",
  "command": {
    "id": <commandId>,
    "command": <Command_Name>,
    "timestamp": <Time_Stamp>,
    "lastUpdated": <Time_Stamp>,
    "userId": 6,
    "deviceId": <Device_ID>,
    "networkId": 6,
    "deviceTypeId": 4,
    "parameters": {
      <Parameter1>: <Parameter2>
    },
    "lifetime": null,
    "status": <Status>,
    "result": {
      <Result1>: <Result2>
    }
  },
  "subscriptionId": <subscriptionId>
}
```

# RYC1001 product features and advantages

## Built on a stable AWS service

AWS is the cloud system with the largest market share currently and has **the most powerful** IT infrastructure.

## Integrate cloud platform in one day

As long as you know how to use MQTT function system or hardware module, you can use the simple commands of RYC1001 to quickly enter the cloud platform **within a day**.

## Devices that support the MQTT protocol can be use.

Support Android, iOS, Windows, Linux. Compatibility testing of **all mainstream IoT communication modules** was completed. Including REYAX RYWB116/RYWB117, ESP8266, TI, Telit, Thales, SIMCOM, Quecxxl... etc.

## Low-cost access to the cloud platform

It takes years and hundreds of thousands of dollars to develop a mature cloud platform, but you can use the cloud platform RYC1001 immediately for **only 15 dollars**. And we provide each account with 100,000 messages per month and 5 years of use time!

## Low processor requirements

Most processors above ARM M0 can be used.

## Suitable for low-data-volume and power-saving devices.

Using MQTT's unique Subscribe and Publish mechanisms, IoT devices do not need to inquire at any time, **greatly reducing energy consumption and costs**.

Thank you 😊

