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MQTT Anywhere Kit

PID: MIKROE-5619

MQTT Anywhere KIT is a great way to get started with building your custom IoT Communication-as-a-Service SIM-based LPWA device. It comes preinstalled with the Thingstream client SDK demo, which enables the device to connect to the Thingstream global MQTT network and connectivity tools straight out of the box. Global connectivity is achieved by connecting to the strongest GSM network available across over 600 networks worldwide.

The kit comes in various module flavors and cellular network type to choose from, such as 3G, 4G or NB IoT connectivity. We invite you to select the one which works best for your aplication, and don’t worry you can upgrade it anytime by adding new Click board.

MQTT Anywhere KIT enables low-cost, low-power IoT connectivity and simple software integration with the Thingstream MQTT broker and cloud-based data management platform. This kit also comes with a start-up package comprising - free Thingstream account activation, an Thingstream IoT SIM and 30 days of free global cellular connectivity. The device is activated by a redemption unique ID to the SIM.

NOTE: Each MQTT Anywhere KIT comes with 30 day of full access to the Thingstream global MQTT network and connectivity software tools and Data Flow Manager.

How it works

MQTT Anywhere KIT enables low-cost, low-power IoT connectivity and simple software integration with the Thingstream MQTT broker and cloud-based data management platform. This kit also comes with a start-up package comprising - free Thingstream account activation, a

Mikroe produces entire development toolchains for all major microcontroller architectures.
Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.

ISO 27001: 2013 certification of informational security management system.
ISO 14001: 2015 certification of environmental management system.
OHSAS 18001: 2008 certification of occupational health and safety management system.

ISO 9001: 2015 certification of quality management system (QMS).

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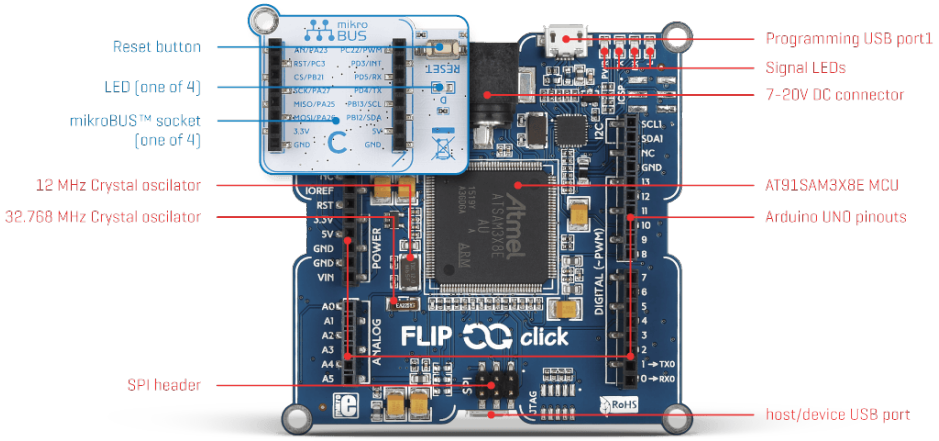
Thingstream IoT SIM, and 30 days of free global cellular connectivity. The device is activated by a redemption unique ID to the SIM.

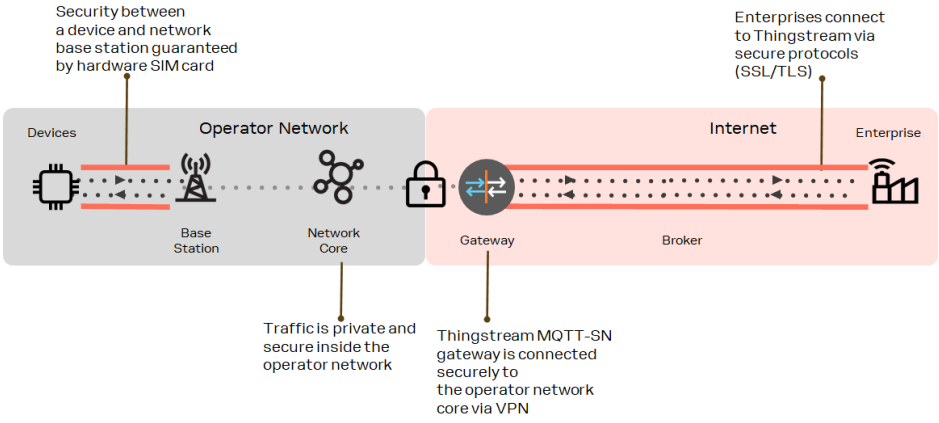
Each MQTT Anywhere KIT is based on the Flip&Click SAM3x (customized Arduino Due) and one Click board™ IoT device with matching antennas for GSM/LTE or GPS/GLONASS. This KIT is preconfigured with all the protocols and communications settings to connect with the Thingstream global MQTT network and Data Flow Manager. This feature is implemented via the Thingstream client SDK, which can be used to develop and customize the firmware in Arduino IDE. Results can be achieved quickly, even without a deep understanding of software engineering and web programming.



The Flip&Click SAM3x board is equipped with four mikroBUS™ sockets, leaving you with enough space for customization and upgrade of your device with more than 1.300 of additional Click boards. To find more examples and applications for customization, visit our Flip&Click SAM3x product page.

MQTT Anywhere

MQTT Anywhere provides an ultra-low power, secure IoT communication service using the MQTT-SN protocol over a private, secure communication channel which operates seamlessly across 600+ cellular carriers in 190 countries around the world.



Thingstream's connectivity platform enables two-way intelligent communication between the

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device and IoT application, and with proven scalability, the platform is ideal for delivering mass IoT deployments. It doesn't use TCP-IP; therefore, things are inherently more secure with no IP (Internet) dependency. Connectivity is provided via a proven, high-availability, high-performance global messaging platform.

Find out more about the Thingstream global MQTT network.

Software support

Applications for this development kit were developed in Arduino IDE. For details on how to compile and customize this application, you can use Flip&Click: Getting Started Manual.

KIT content:

- Flip&Click SAM3x
- One connectivity Click board™ (2G, 3G, 4G, or LTE Cat M)
- GSM/ LTE/ or GPS/GNSS antenna depending on the module type
- USB Cable 2m Braided (Type A-Micro B)
- Thingstream SIM card - 30 days of FREE access

Specifications

Type	Flip&Click,LTE IoT
Architecture	ARM (32-bit)
Programming	Bootloader, External
Silicon Vendor	Microchip
mikroBUS No.	4
Supply Voltage	USB,External
Category	Flip & Click

Resources

mikroBUS™

Click board™ Catalog

Click boards™

Downloads

Flip & click User Manual

Flip&Click SAM3X 3D file

MQTT Anywhere Kit quick start guide