u blox

This year at CES, we are pleased to present our solutions in the field of micromobility.

We will be showcasing our customer Modmo's Saigon+ smart bicycle, which incorporates innovative u-blox technologies to deliver an even better end-user experience.

Find out how our smart bicycle solution lets vendors in the shared micromobility space offer more to their customers, harnessing the full range of u-blox's positioning and communication solutions: high-precision GNSS, cellular, Bluetooth and Wi-Fi communication, and a cost-effective Communications-as-a-Service package.

www.u-blox.com

MQTT Anywhere

IoT Communication-as-a-Service SIM-based LPWA

Key highlights

IoT communication service operating across 600+ cellular network carriers in 190 countries around the world without the need for cellular data.
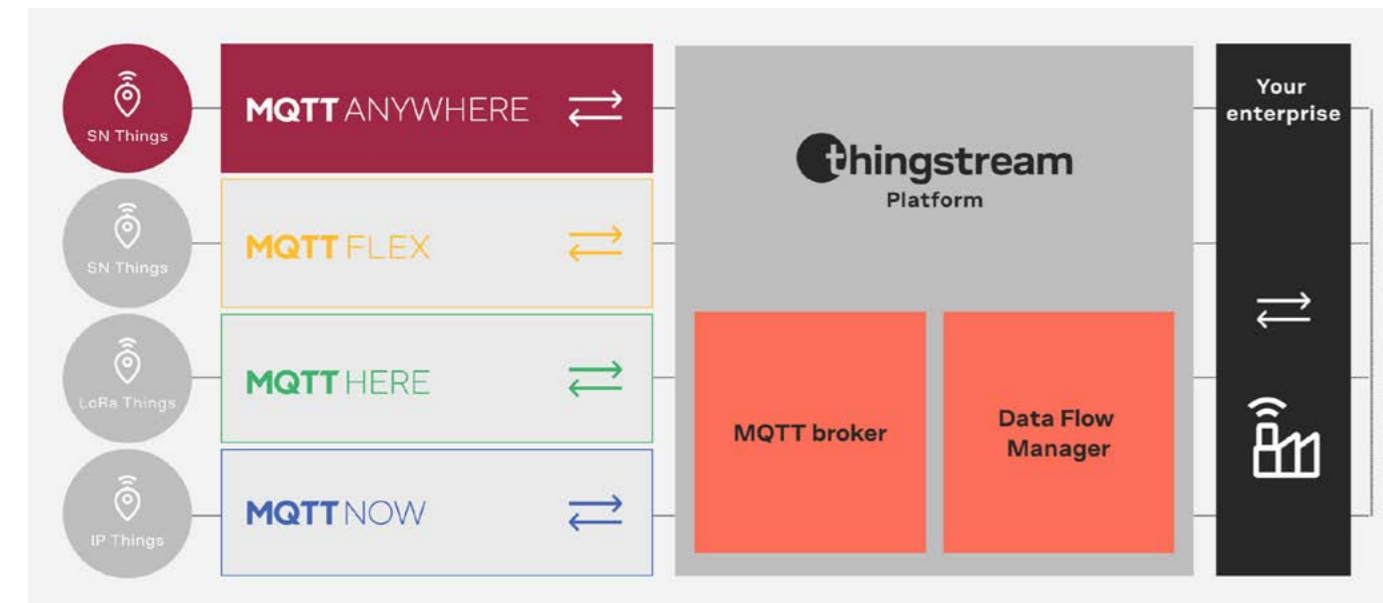- Enables long-life, low-power devices
- Simplifies IoT systems integration
- Fixed, low-cost, global connectivity
- Globally ubiquitous, seamless roaming

Supporting 2G, 3G, LTE, and LTE-M, MQTT Anywhere can be used within any type of IoT device to send and receive MQTT-SN (MQTT for sensor networks) messages using either USSD or UDP protocols as a transport mechanism.

MQTT Anywhere secures your IoT communications. Because our systems are directly integrated into the core of our partner cellular networks, we can authenticate devices via the hardware IoT SIM card, ensuring that your traffic is never exposed to the public internet.

Device payloads can be enriched and transformed using the Data Flow Manager within u-blox Thingstream, which also provides integration with virtually any 3rd party enterprise system or IoT platform.

http://ubx.io/anywhere

u-blox services are delivered by the Thingstream IoT Communication-as-a-Service platform

LARA-R211

Single or multi-mode LTE Cat 1 modules with positioning capability

Variant specifications:
LTE Cat 1 modules for Europe with 2G fallback; LTE Bands 3, 7, 20

LARA-R2 series key highlights

Region-specific LTE Cat 1 modules with 2G or 3G fallback
- Voice support via VoLTE or CSFB
- Cellular location service and hybrid positioning
- Small, compact LARA LGA form factor for easy manufacturing
- Easy migration between u-blox 2G, 3G and 4G modules

IoT SIM card

Enable your device to connect from almost anywhere in the world

Key highlights

Unlock the power of MQTT Anywhere
- Seamless global roaming on 2G/3G/LTE networks
- Low cost, fixed price pay-as-you-go plans with no monthly contract or roaming fees
- Multiple form factors: 2FF, 3FF, and 4FF

IoT SIM card features

Unlock the power of MQTT Anywhere
- Global – send and receive IoT messages in over 190 countries
- Bearer agnostic – freely roam on 600+ bearer networks worldwide
- Predictable – fixed, per-message price plans
- Simple – easy device to enterprise integration with MQTT Anywhere
- Available – picks the strongest signal, regardless of bearer or location

IoT SIM card – specifications

- 2FF, 3FF, and 4FF formats - MFF2 (QFN8) M2M eSIM also available
- Samsung S3FS9FG chip
- ARM7 SC100 16/32-bit RISC
- 1.6V, 3V and 5V operating supply voltage ranges
- Operating temperature range of -25°c to +85°c

NINA-B112

Stand-alone Bluetooth low energy modules with NFC

Variant specifications:
With internal antenna, 10.0 x 14.0 x 3.8 mm, use with u-connectXpress software

NINA-B1 series (u-connect) key highlights

Feature-rich Bluetooth 5 low energy module with most worldwide certifications
- Bluetooth 5
- u-connect software for accelerated time to market
- Option to use open CPU for customer applications
- Hardware optimized for performance and low power consumption
- Pin compatible with other NINA modules
- Multiple antenna options

EVA-M8M

Cost-efficient u-blox M8 GNSS SiPs

Variant specifications:
u-blox M8 concurrent GNSS LGA module, crystal, ROM. (Default: GPS + GLONASS)

EVA-M8 series key highlights

Cost-efficient GNSS SiP (System in Package) solution
- GNSS solution in 7x7 mm package
- Cost-efficient modules for different performance needs
- Highest accuracy thanks to 3 concurrent GNSS
- Highly integrated modules allow faster time-to-market
- Versatile products fit into wide-range of applications

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