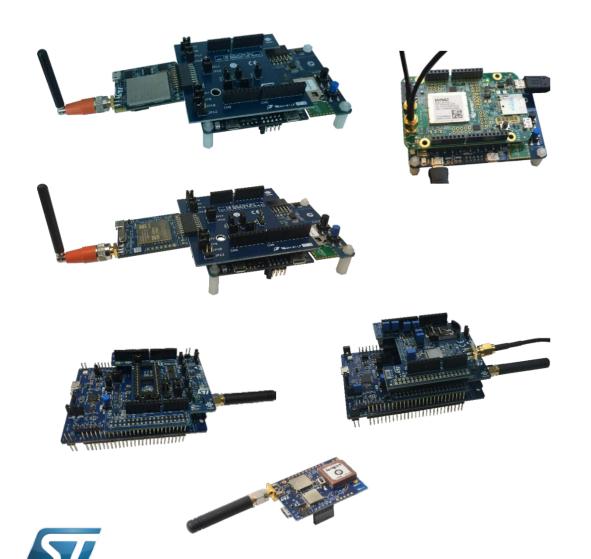
LPWAN Connectivity – Starter Kits for IoT



LTE-M Verizon & AT&T Starter Kits

LTE-M Worldwide MVNO Starter Kit

LoRa® MachineQ Starter Kit

LoRa® Asset Tracking IoT Solutions

LTE-M Verizon Starter Kit



Accelerate LTE-M IoT product time-to-market





















Kit IoT Node













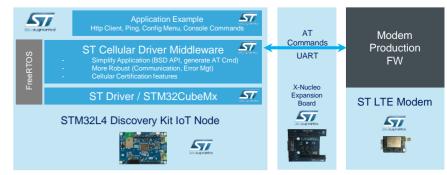


Simplify Application For Cellular Devices to various Cloud Partners

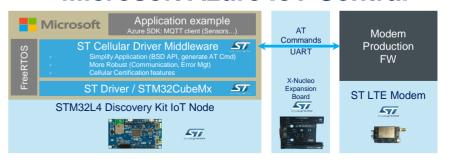
X-CUBE-CELLULAR

STM32 Cellular Driver Middleware

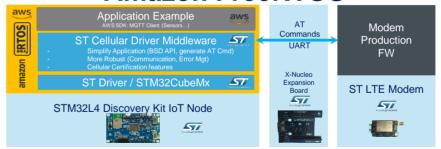
- No need to be a Cellular expert
- Simple Application
 - BSD like Socket APIs → Data Plane
 - HAL
 - Abstract all key Cellular AT commands
 - Control various modem vendors
 - Error Management (Device, Network)
- - Partial GSMA TS34/35 compliance



Microsoft Azure IoT Central



Amazon FreeRTOS

















LTE-M AT&T Starter Kit

STM32-based Development Kit with AT&T



Published HERE















LTE-M Worldwide MVNO Starter Kit

Accelerate LTE-M IoT product time-to-market













Humidity Temperature



Pressure



Time of Flight Proximity Sensor



2x MEMS
Microphone







X-Nucleo Expansion Board



STM32L4 Discovery Kit IoT Node













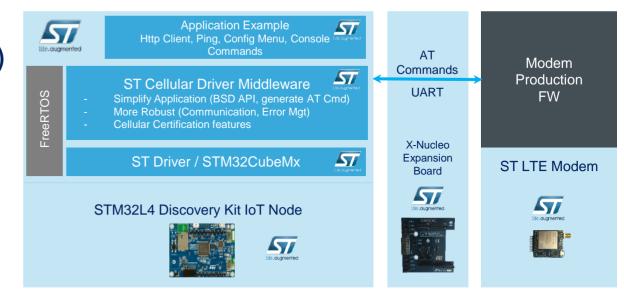


Simplify Application For Cellular Devices

STM32 Cellular Driver Middleware

- No need to be a Cellular expert
- Simple Application
 - BSD like Socket APIs → Data Plane
 - HAL → Abstract all key Cellular AT commands
 - Control various modem vendors
 - Error Management (Device, Network)
- Certification added value
 - Partial GSMA TS34/35 compliance

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LoRa® MachineQ Starter Kit

Accelerate Time-to-Market





https://machineQ.com/st-lora-dev-kit/





ST LoRa® Dev-Kit Deal

MACHINEQ

A COMCAST COMPANY







ST LoRa Dev Kit

The ST LoRa development board and sensor is an advanced development kit optimized for engineers that are ready to prototype scalable solutions towards a complete IoT

https://MachineQ.com/iot-starter-kit/

MachineQ Gateway (8 channel)

- + ST LoRa Dev Kit
- + 3 months MQcentral IoT Management







LoRa® Asset Tracking IoT Solutions

Expand LoRa to Asset Tracking IoT use cases













ST LoRa® Asset Tracking Ref Design STEVAL-STRKT01

Key Features

 Optimized tracker solution over LoRaWAN network with simultaneous multi-constellation GNSS positioning and Geofencing support

• Battery-operated solution with smart power-management architecture

Environmental and motion sensors / Data Logging

IoT ST reference with USB Type-C

• FW Function Pack FP-ATR-LORA1 for modular and integrated solution





- CMWX1ZZABZ: LoRa® module
 - STM32L072, and SX1276 Semtech LoRa transceiver
- TESEO-LIV3F: GNSS standalone module based on TESEO III
- STBC02: Li-Ion linear battery charger with LDO and power path
- ST1PS01EJR: 400mA Nano-Quiescent™ Synchronous step-down converter
- STUSB1600A: USB Type-C controller
- LIS2DW12, HTS221, LPS22HB: Motion and environmental sensors
- M95M02-DR EEPROM







CMWX177AB7

TESEO-LIV3E