IoT is About Observing the World in Real Time in Order to Make Life Better

- Increase productivity
- Accelerate efficiency

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IoT: Observing the World

Sensors on All Things

Wireless Connectivity

Cloud Computing

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Evolution from M2M to IoT

Billions of Things
BLE/Wi-Fi, LPWA, 4G LTE

Millions of Things
2G Wireless

M2M

Low-power Wireless
Connectivity

IoT

- **Accelerating growth of existing apps**
- **New applications arising daily**

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Key Drivers Converge

- **LTE-M & NB-IoT designed for IoT**

- **Worldwide network availability**

- **Data plans adapting to IoT**

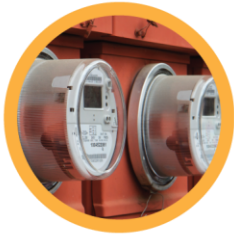- **Ecosystem now ready**

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Monarch:
an IoT Platform
Designed for Low Power

- **Rock bottom: 1 uA**

- **Fast and adaptive boot, wake-up, go-to-sleep times**

- **Dynamic power management for smart use of idle/eDRX/PSM**

MONARCH

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Low Power Use Cases
Using Sequans Monarch

Smart Meters

- Up to 15 years battery life
- Meter reporting over LTE every day
- <1000 mA.h battery using PSM
- 5,000 mA.h battery using eDRX (21 min paging cycle)
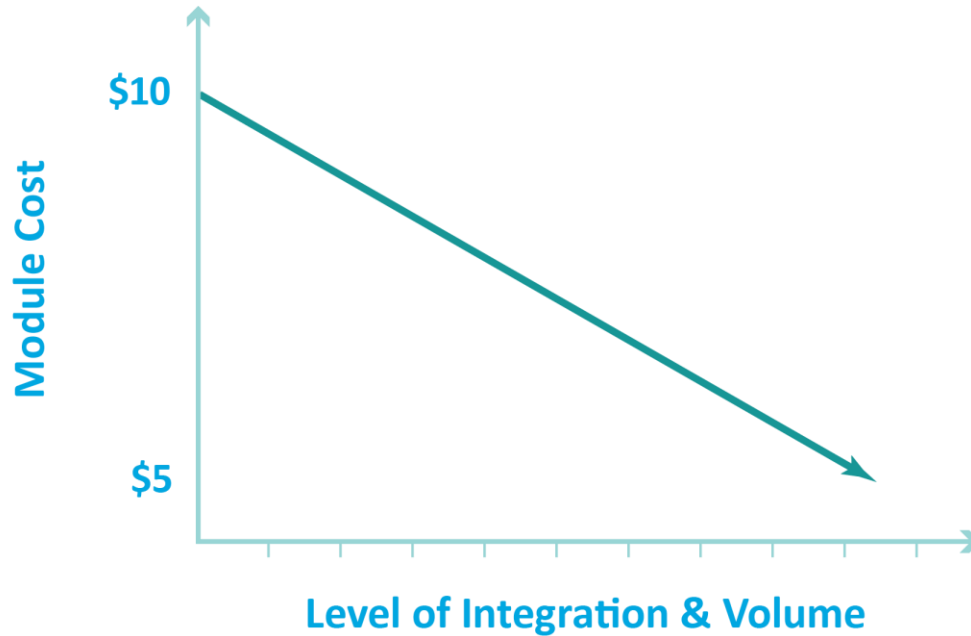
Asset Tracker

- 3 years battery life (GNSS + LTE)
- Geolocation report every 12h
- 1,100 mA.h battery with combined PSM and eDRX

Consumer Tracker

- 1 month battery life (GNSS + LTE)
- Geolocation report every 5 minutes
- 450 mA.h battery with combined PSM and eDRX

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LTE Platform
CAT M1/NB1

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Module Cost Evolution

Easy Integration

With Sequans Monarch

Simple WW SKU: one hardware fits all

HD-FDD

Simple BOM

Flash

LTE Cat M1/NB1 Modem

Application-specific Platforms

monarch**SX**
Wearable Platform

cloē
Tracker Platform

Native Support of Cloud

T··Mobile · at&t · Sprint

verizon✓ · amazon · Google

Pre-certified Modules

Fibocom · gemalto security to be free · FOXCONN

pycom GO INVENT · HUAWEI · USI · WNC Wistron NeWeb Corp. · WISOL

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