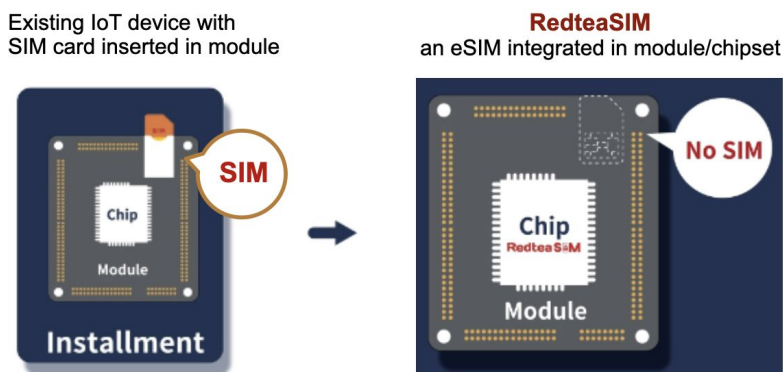


## RedteaSIM: a revolutionize solution for LPWAN (NB-IoT/CAT-M)

### Why RedteaSIM ?

Market is looking for a real easy-to-deploy, low cost, low power consumption and long life LPWAN solution. RedteaSIM is specifically designed for this with SIM function being realized in wireless modem/chipset via TEE eSIM. Compare to traditional SIM card solution, RedteaSIM provides the following benefits over the traditional one:

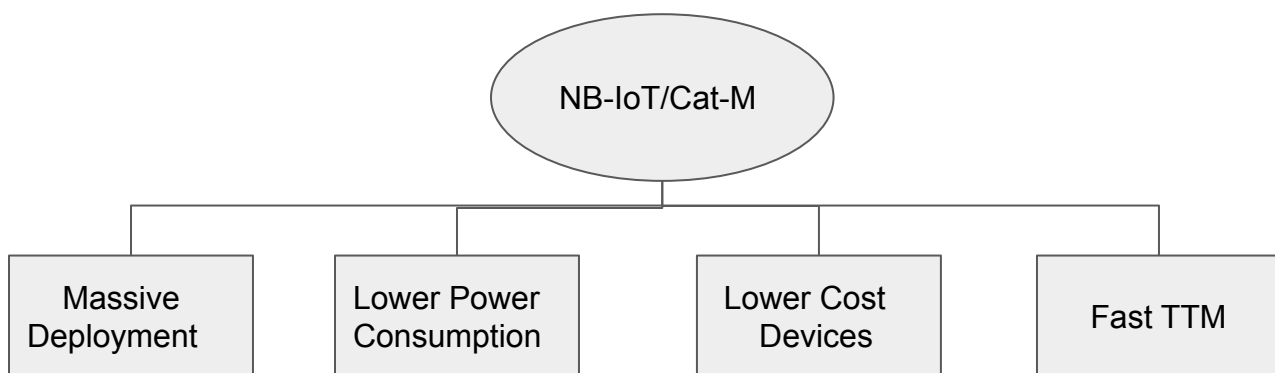
- Eliminate SIM card manufacturing and delivery costs;
- Eliminate HR cost in terms of card handling and maintenance;
- Eliminate SIM card slot to free space for device manufacturer to provide extra functions;
- Eliminate the problem of card erosion (without SIM card)
- Improve power efficiency with SIM function integrated into wireless module/chipset.



### Characteristics

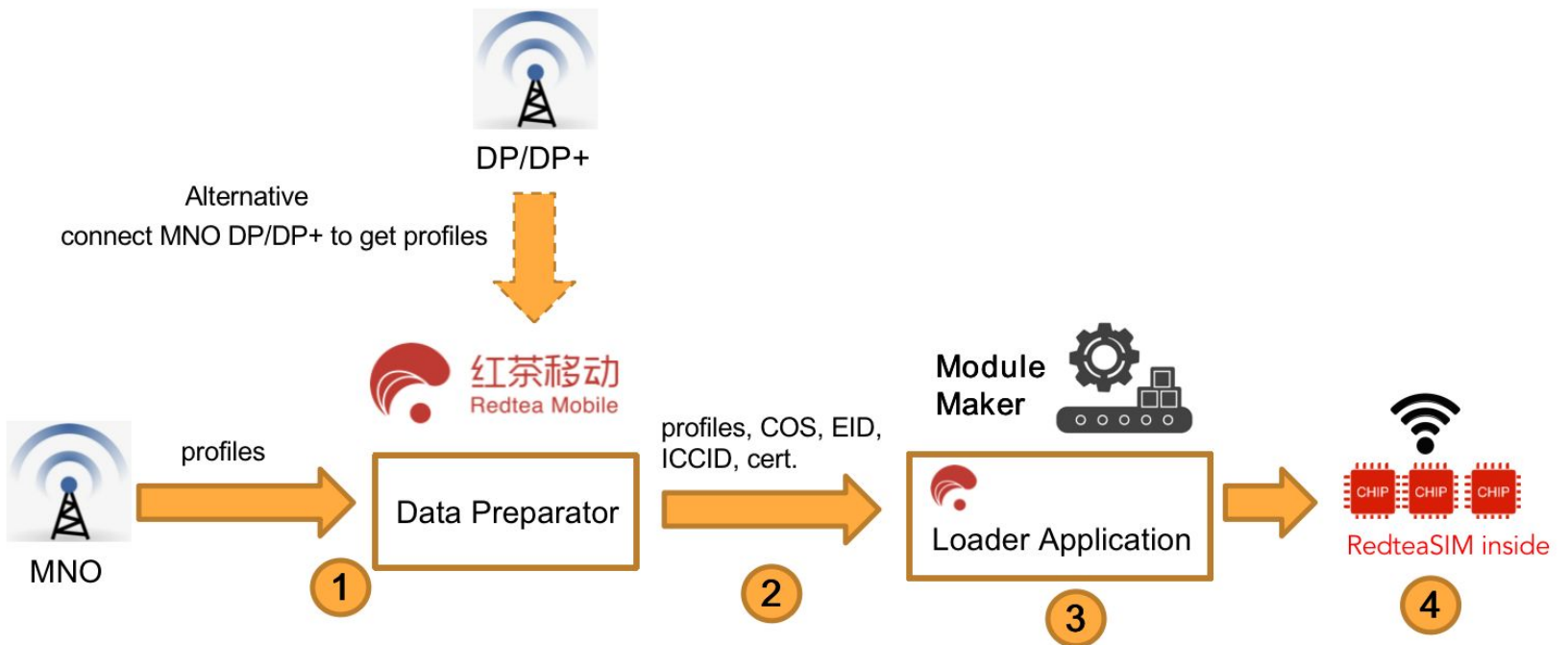
	Traditional SIM (plastic)	Embedded SIM (eSIM)	RedteaSIM
SIM Cost	Medium	High	Low
Form Factor	Physical SIM, separate component (inserted)	Physical SIM, separate component (embedded)	iSIM Integrated in NB-IoT chipset (software)
Power Consumption	High	Medium	Low
Deployment Cost	High and complicated	Medium	Low
Maintenance Cost	High	Medium	Low
Use Case	Traditional IoT solutions, existing IoT devices	High-ended devices like industrial devices, tablets	Low-cost & large scale, e.g. gas meters, smart lights

### Applicable Market: NB-IoT/Cat-M



## How It Works ?

1. Redtea Mobile prepares a COS software package and get SIM profiles from Operators
2. Redtea Mobile prepares relevant certificates, EID, ICCID and imports to LA.
3. LA requests for query of DP stock, start downloading profiles by batch.
4. RedteaSIM is ready with connectivity built-in when modules leave factory



MNO: Mobile Network Operator  
DP: Data Preparator  
LA: Loader Application  
COS: Card Operating System  
EID: Equipment Identity  
ICCID: Integrated Circuit Card Identifier

## What Is Needed ?

Redtea Mobile: provide COS software package, DP, LA

Mobile Operators/Carriers: provide SIM profile, DP/DP+ (optional)