

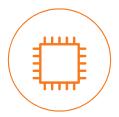








# **IDEA**



# **PROTOTYPE**



**PRODUCT** 



### mangOH® platforms overview

















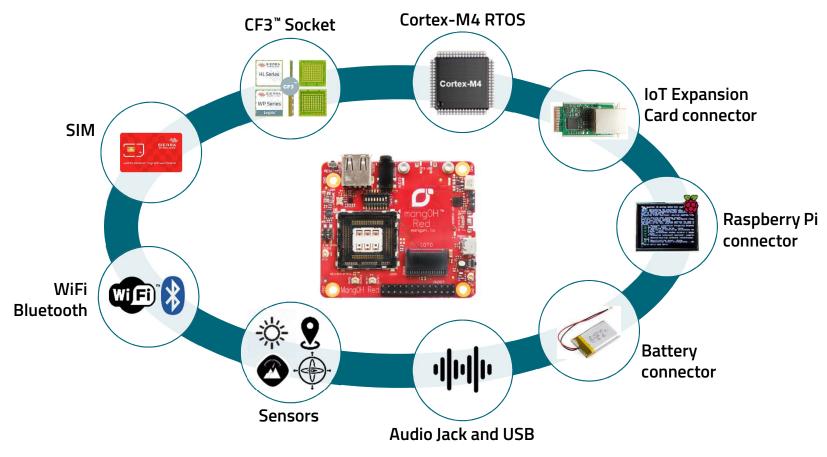






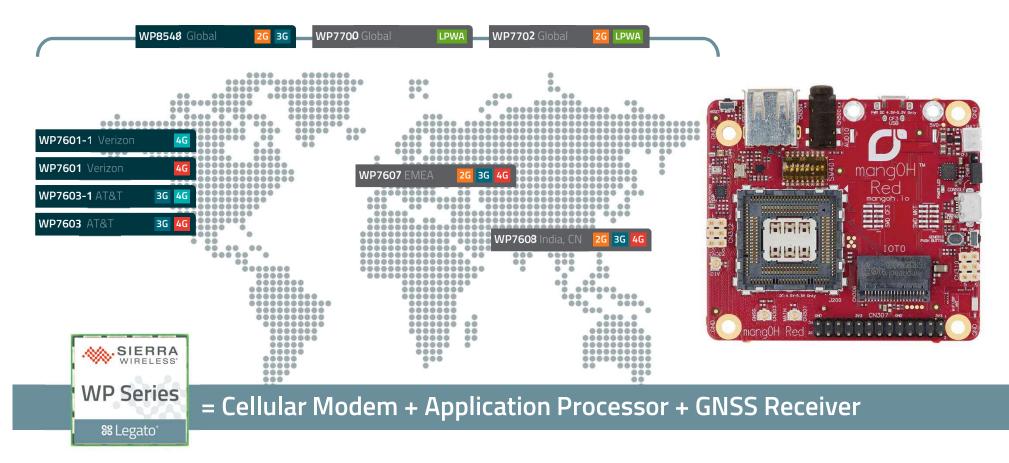


# Prototyping for IoT - mangOH® Red





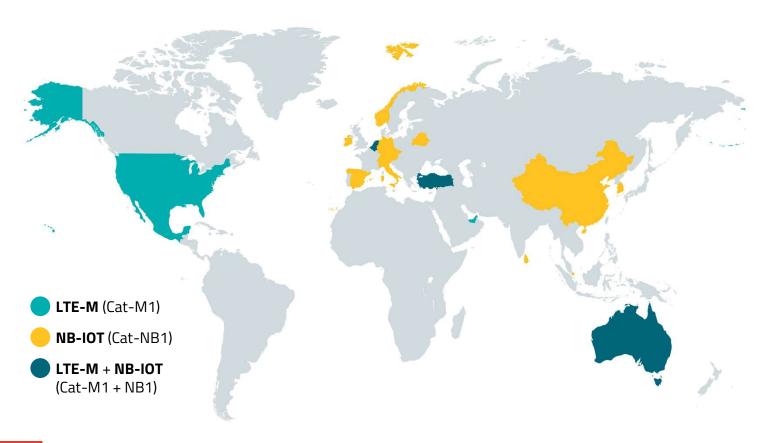
#### mangOH Red Board Variants





## Coverage according to the GSMA (Jan 2018)

Source: https://www.gsma.com/iot/deployment-map/



COUNTRY	LPWAN	
Australia	Both	
Austria	NB-IoT	
Belarus	NB-IoT	
Belgium	Both	
China	NB-IoT	
Czech Republic	NB-IoT	
Germany	NB-IoT	
Hong Kong	NB-IoT	
Ireland	NB-IoT	
Italy	NB-IoT	
Mexico	LTE-M	
Netherlands	Both	
Norway	NB-IoT	
Singapore NB-lo		
South Korea	NB-IoT	
Spain	NB-IoT	
Sri Lanka	NB-IoT	
Turkey	Both	
UAE	Both	
USA	LTE-M	



### LPWA: Expected coverage by the end of the 2018

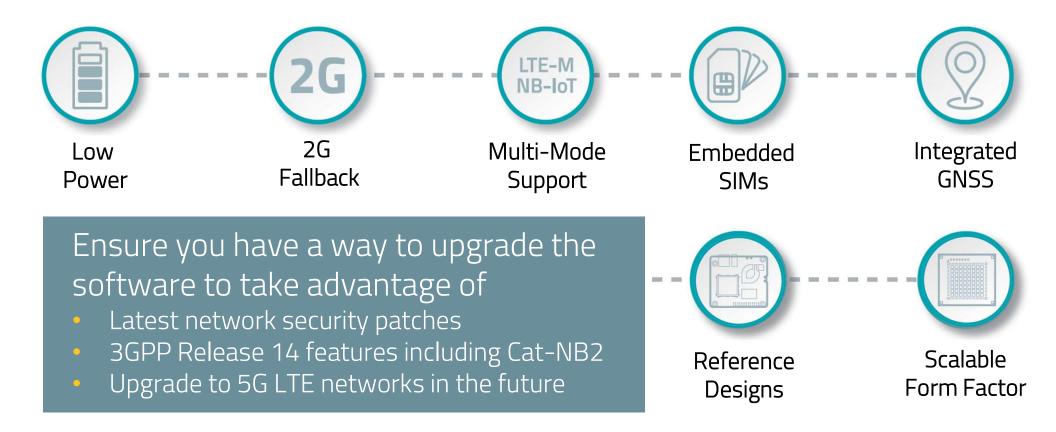


COUNTRY	LPWAN	COUNTRY	LPWAN
Argentina	NB-IoT	Latvia	Both
Australia	Both	Lithuania	Both
Austria	Both	Mexico	LTE-M
Belarus	NB-IoT	Moldova	Both
Belgium	Both	Netherlands	Both
Brazil	Both	New Zealand	Both
Canada	Both	Nigeria	NB-IoT
Chile	NB-IoT	Norway	Both
China	Both	Poland	Both
Czech Republic	NB-IoT	Portugal	Both
Denmark	Both	Romania	NB-IoT
Egypt	NB-IoT	Russia	Both
Estonia	Both	Saudi Arabia	Both
Finland	Both	Singapore	Both
France	Both	Slovakia	NB-IoT
Germany	Both	South Africa	Both
Greece	NB-IoT	South Korea	Both
Hong Kong	NB-IoT	Spain	Both
Hungary	NB-IoT	Sri Lanka	NB-IoT
Iceland	NB-IoT	Sweden	Both
India	NB-IoT	Switzerland	Both
Indonesia	NB-IoT	Tanzania	NB-IoT
Ireland	NB-IoT	Thailand	NB-IoT
Israel	Both	Turkey	Both
Italy	Both	UAE	Both
Japan	Both	UK	Both
Kenva	NB-IoT	USA	Both





### LPWA WP77xx considerations for design





### Getting Started with Red – Part 1

#### **Step 1: Order**

i. Buy  $\rightarrow$  Order  $\rightarrow$  Get ready

ii.Register → Login

#### **Step 2: Set up the hardware**

i. i. Kit content

ii.Drivers

iii.Assemble

#### **Step 3: Set up the software**

i. VM download & setup

ii.FW download and go

iii.Make mangOH system



## Getting Started with Red – Part 2

#### **Step 4: Connectivity**

i. Network connection

#### Step 5:

i. Air Vantageii. Play with sensors



### Next Hangout: May 22<sup>nd</sup>

- Get Started with mangoh Red WiFi
- Customer use case series: Brnkl.io ( start to product)
- Q&A
- We might do a hangout before if there is a technical question asked by community

