

# HUAWEI LTE E5 E5577 Series Presentation



HUAWEI

**E5577 SERIES**

PERSONAL 4G MOBILEWIFI SOLUTION.HUAWEI



# The LTE Cat4 E5 E5577 (painting)

MAKE it  
**POSSIBLE**



Elegant ID design



Support Wifi 2.4G/5G DBDC



1.45 TFT Screen, Interactive UI



Bigger Battery Out Charger



HiLink APP 3.0, SD card sharing



## Key features:

- **ID**
  - Elegant design with leather texture
  - Dimensions: 96.8\*58\*17.3mm
- **Performance**
  - Support LTE Cat 4
  - Support Wi-Fi 2\*2; 2.4G/5G DBDC
  - Support Wi-Fi 802.11 a/b/g/n
  - Support Double External antenna interface
- **Working Time**
  - 3000mAh Battery: LTE 12 h working time.600h standby time
  - ( \*Depending on the state of network and environment )
- **Easy to use**
  - Support Windows/MAC OS
  - Support 10 Wi-Fi users+1 USB user
  - Support Huawei HiLink APP 3.0, Volume sharing;
  - Support SD card sharing
  - TFT 1.45 Screen, Interactive UI



# The LTE Cat4 E5 E5577C (no painting)

MAKE it  
**POSSIBLE**



Elegant ID design



Support Wi-Fi 2.4G/5G DBDC



1.45 TFT Screen, Interactive UI



HiLink APP 3.0, SD card sharing

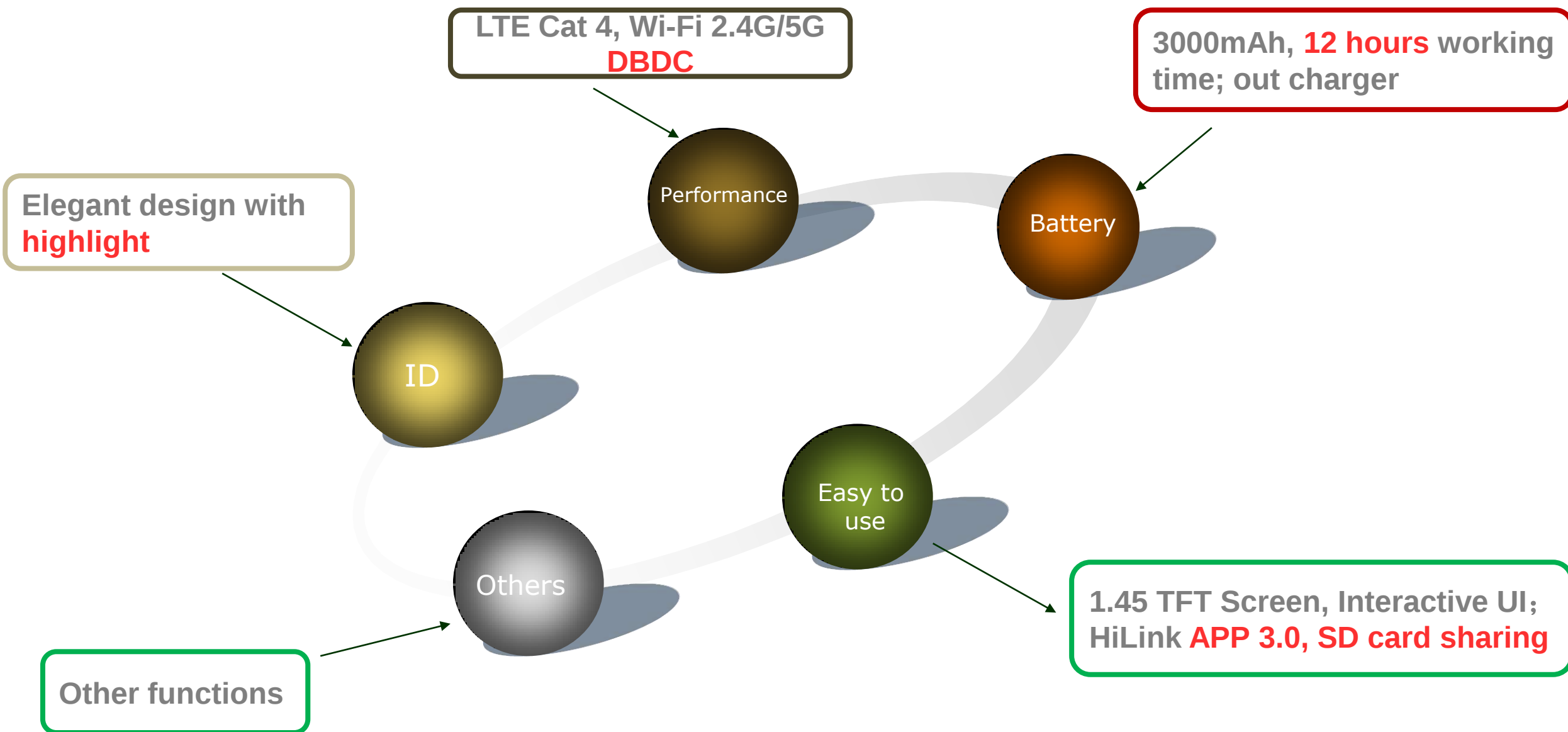


## Key features:

- **ID**
  - Elegant design with leather texture
  - Dimensions: 96.8\*58\*13.5mm
- **Performance**
  - Support LTE Cat 4
  - Support Wi-Fi 2\*2; 2.4G/5G DBDC
  - Support Wi-Fi 802.11 a/b/g/n
  - Support Double External antenna interface
- **Working Time**
  - 1500mAh Battery: LTE 6 h working time.300h standby time
  - ( \*Depending on the state of network and environment )
- **Easy to use**
  - Support Windows/MAC OS
  - Support 10 Wi-Fi users+1 USB user
  - Support Huawei HiLink APP 3.0, Volume sharing;
  - Support SD card sharing
  - TFT 1.45 Screen, Interactive UI



# E5577 Highlight



# E5577 ID Design



## 4G LIFE

MUCH QUICKER WIFI SPEED MEETS YOUR FAST CONNECT TO INTERNET



# PRESS AND PLAY

SIMPLIFY THE OPERATION MUCH EASIER AND ENJOY THE WIFI AT ONCE

# COMPACT

CLASSIC SHAPE WITHIN HUAWEI DESIGN DNA





# OUTLINE

ROUND SHAPE WITH COMFORTABLE TOUCH FEELING



# SIZE

SMILAR TO THE CEDIT CARD BY 96.8\*58\*17.3MM



CEDIT CARD



# SLIM

SUITABLE RATIO MAKES IT NOT THICK EVEN 17.3MM HEIGHT

# TEXTURE

BEAUTIFUL AND ORNAMENTAL TEXTURE MAKES IT MORE ELGANT



Black is the customized color

# BLACK EDITION

COMFORTABLE FEELING WITH SOFT TOUCH  
PAINTING, ONE MORE CMF CHOICE





## E5577s WHITE 6 VIEWS

HIHG-LEVEL(PAINTING)&3000mAh EDITION. SIZE: 96.8\*58\*17.3MM



## E5577s BLACK 6 VIEWS

HIHG-END(PAINTING)&3000mAh EDITION. SIZE: 96.8\*58\*17.3MM



## E5577Cs-321 WHITE 6 VIEWS

ENTRY-LEVEL(NO PAINTING)&1500mAh EDITION. SIZE: 96.8\*58\*13.5MM



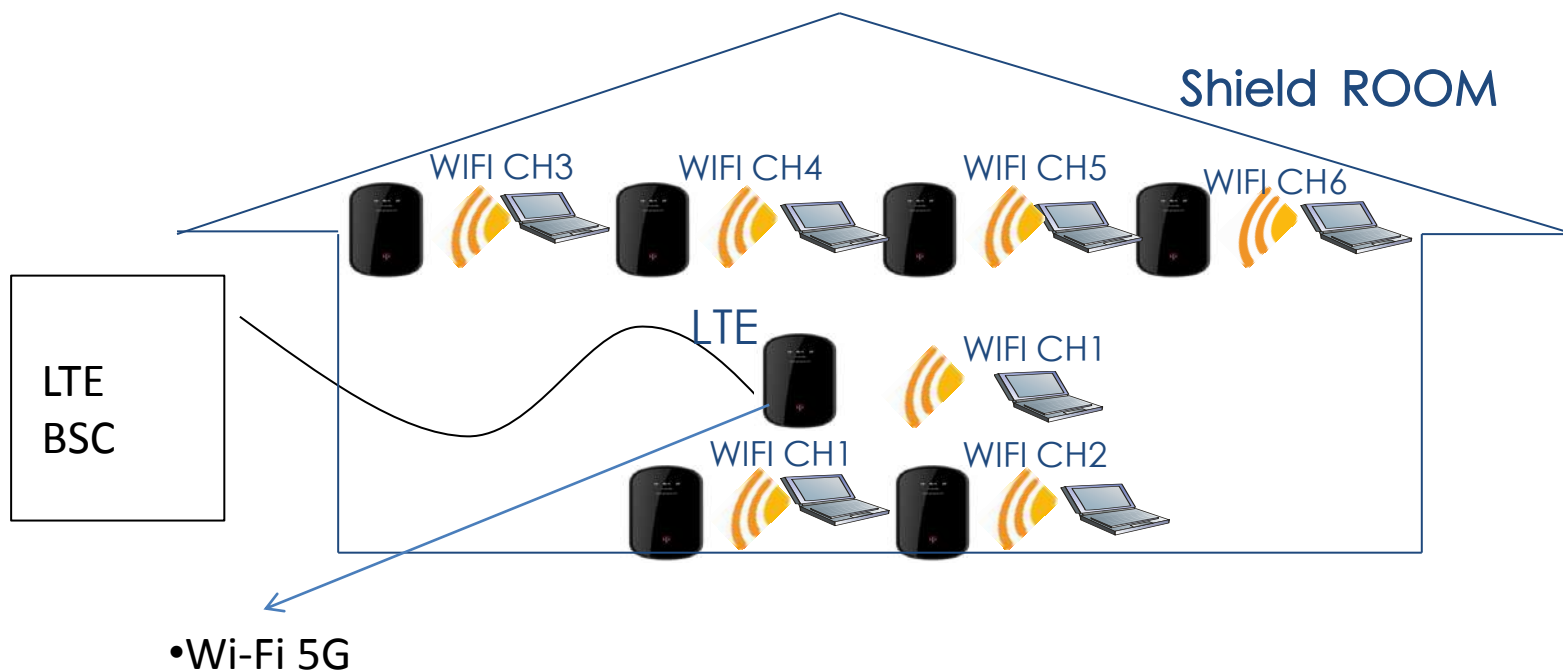
## E5577Cs-321 BLACK 6 VIEWS

ENTRY-LEVEL(NO PAINTING)&1500mAh EDITION. SIZE: 96.8\*58\*13.5MM

# E5577 Wi-Fi 2.4G/5G—DFS—DBDC

## Support Wi-Fi 5G High Speed Connection

The frequency of 5G 802.11n is more “clean”, release the burden of WLAN and bring the high speed experience.



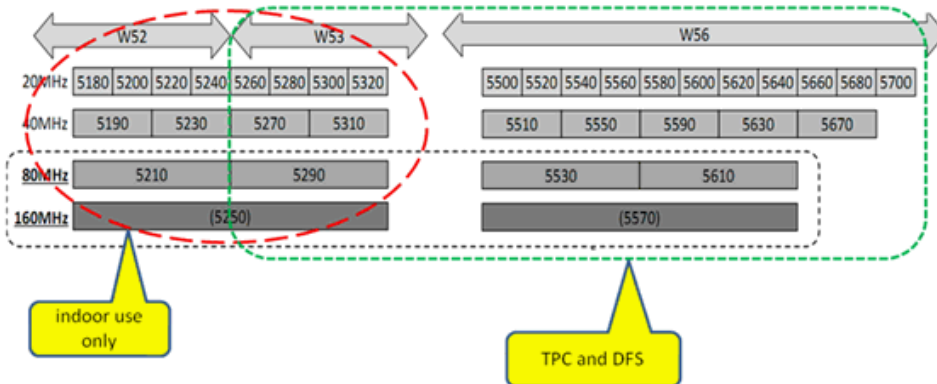
- The frequency of 802.11n contains 2.4G and 5G. While the existing 2.4G equipment more, frequency spectrum resource is very nervous, the WLAN network quality has no effective guarantee.

# Indoor or Outdoor enjoying the high speed net —5G DFS

## (DFS——dynamic frequency selection)

Both E5577 and E5372 can support Wi-Fi 2.4 G / 5 G, but 5G of E5577 support DFS, to be able to use more transmission channels, improve the user experience, and avoid the radar waves, etc

*E5372 cannot support DFS, just can use W52 and W58 channel. E5577 can support DFS, so can have more channels to communication.*



**E5372**

**E5577**

**5G Channel Distributing Map**



**No matter Indoor or outdoor**

**No matter there is radar or not**

**You can enjoy high speed network freely**

**E5577s-321/55577Cs-321 support DFS,  
E5577s-932 can not support DFS**



# E5577 — The whole day working

## 3000mAh

MORE POWER WITH HUAWEI POWER SAVING  
TECHNOLOGY BY 30% MORE EFFICIENT, ENJOYING  
WIFI LONGER



## E5577 has bigger battery, working more time

E5577 has 3000mAh battery, LTE 12 h working time.600h standby time

( \*Depending on the state of network and environment )

## Prepare additional energy for mobile device

Rather than a mobile hotspot, E5577 can charge other devices as a backup battery.

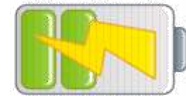
**Take E5577 with you**  
**Enjoy Wi-Fi the whole day**



Cell phone



MP3/4



Earphone

|                        |                  |
|------------------------|------------------|
| Output Voltage         | 5V               |
| Maximum Output Current | 1A               |
| Interface              | Micro USB 2.0 HS |

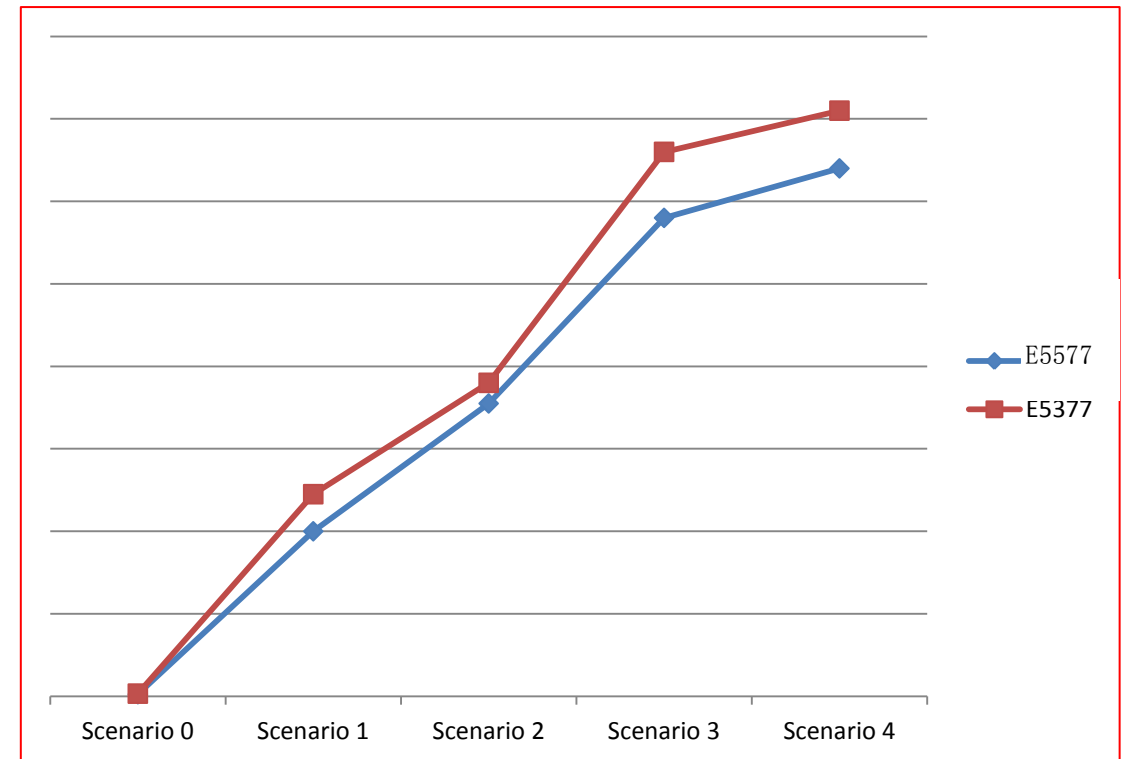
# E5577 — Low power consumption

## E5577—Lower power consumption



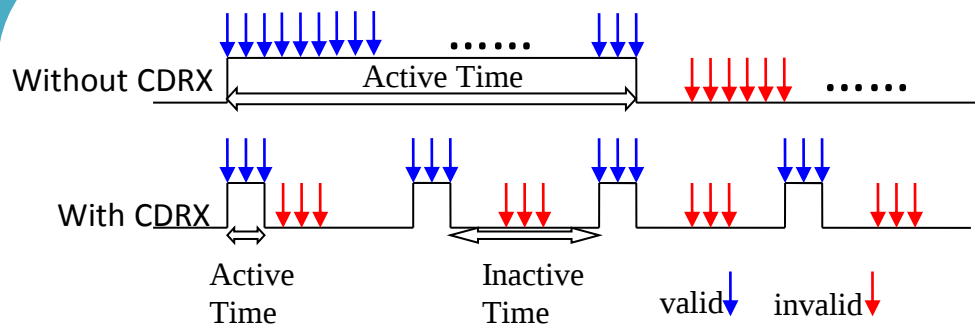
- E5577 can lower 20% power consumption in some certain condition .
- Lower power consumption, longer working time.

| Scenario 0          | Scenario 1       | Scenario 2 | Scenario 3 | Scenario 4  |
|---------------------|------------------|------------|------------|-------------|
| Standby (Wi-Fi off) | browsing webpage | Video      | Download   | weak signal |



# E5577 — Low power consumption

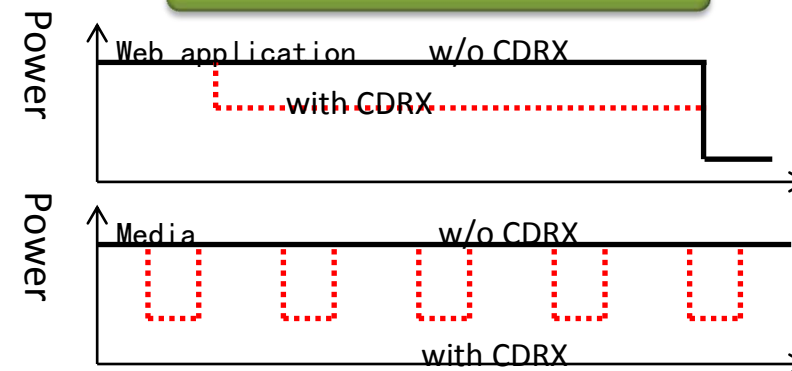
## CDRX Technology



- ✓ CDRX ( Connected Discontinuous Reception ), namely the connected state discontinuous reception, refers to the UE only in the specific TTI will receive eNB data sent.
- ✓ Can maintain the terminal "always-on", namely UE can still keep in RRC Connected state, relative to the RRC IDLE state, to achieve fast response; at the same time as UE only in a particular TTI only on the monitoring data, the relative continuous monitoring means more power.

**CDRX Off: : Working time 9h**

## CDRX Profit



- ✓ Web applications: such as QQ, micro- blog, its frequent switching characteristics apply to CDRX, use CDRX power can optimize for about 30% before.
- ✓ Media: data flow to maintain high speed and continuous features, using CDRX adapting its data source "burst" characteristics, can reduce the power consumption of about 30% before.

**CDRX On : Working time 12h**



# SCREEN

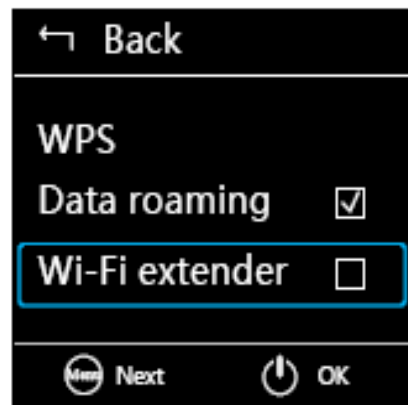
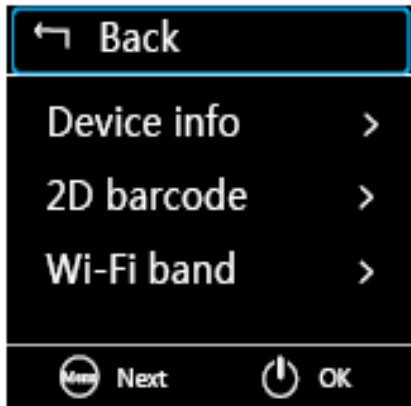
IMPORTANT INFORMATION WILL SHOW AT ONCE

# E5577 — Interactive Menu UI

E5577 has 1.45' TFT LCD Interactive Menu UI which can display more content



## Display UI



## Multi-Languages



E5577 can support to customization 9 other languages (English, French, Portuguese (Portugal) and Portuguese (Brazil), Spanish (Spain), Spanish (Latin America), German, Russian, Italian )

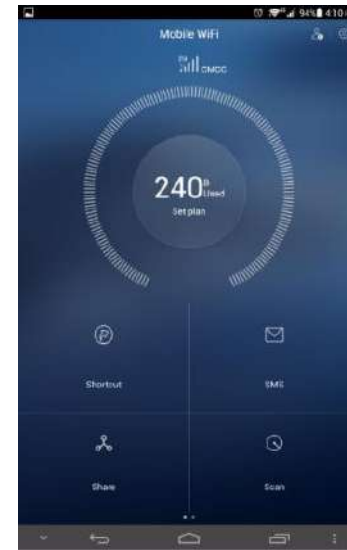
# E5577 — Easy to Manage HiLink APP 3.0



- LTE E5 state reading
- SMS send/receive
- Wi-Fi device management
- Wi-Fi SSID、password management
- Media、software sharing by Wi-Fi



Volume



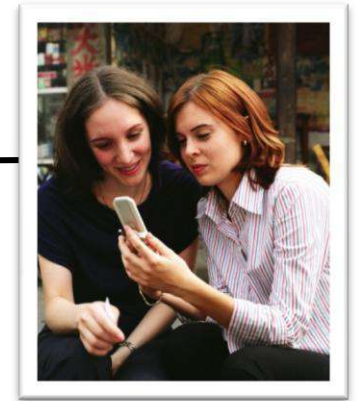
state



sharing



SMS



# New in HiLink App 3.0

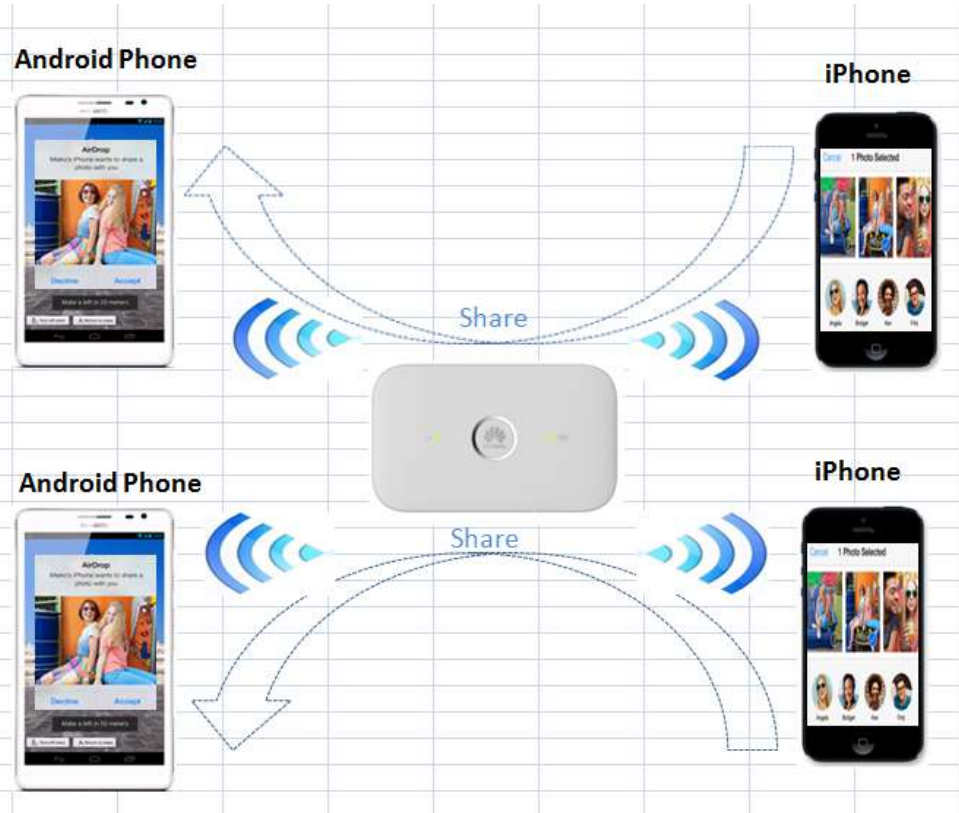


- 1、new face
- 2、Traffic statistic and over proof remind
- 3、new left traffic and left battery percent representation

## Monthly Data set and statistic



# New HiLink App 3.0 — Volume sharing



## Volume sharing

Using Huawei HiLink App 3.0, it lets you quickly and easily "share" photos, apps between mobile phones accessed to the same Mobile WiFi (both android and iOS are supported). Just select the photo or app, and the person you want to share, then "send". It does the rest using Wi-Fi. No setup required, charge free, and transfers faster.

# Others — RNDIS

## 1<sup>st</sup> generation

Physical ISO to store OEM's private host driver.

Users need to install it manually.



## 2<sup>nd</sup> generation

Virtual ISO to store OEM's private host drivers.  
Using PnP, users need to click "OK", "next", ... to install it.



## 3<sup>rd</sup> generation

Not need OEM's private host driver.  
Using RNDIS, users need to do nothing, faster and easier.

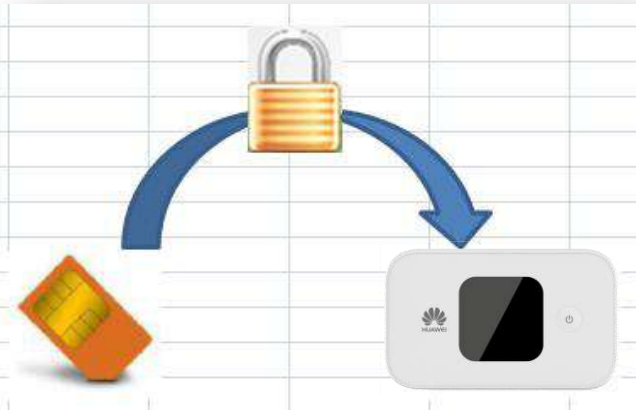


*Using RNDIS, OEM's private drivers are not needed(for USB connection to laptop), easier setup and better experience.*

Note: The Remote Network Driver Interface Specification (RNDIS) is a Microsoft proprietary protocol, it provides a virtual Ethernet link to most versions of the *Windows* operating system.

# Others — Safer wifi network connection (customized function)

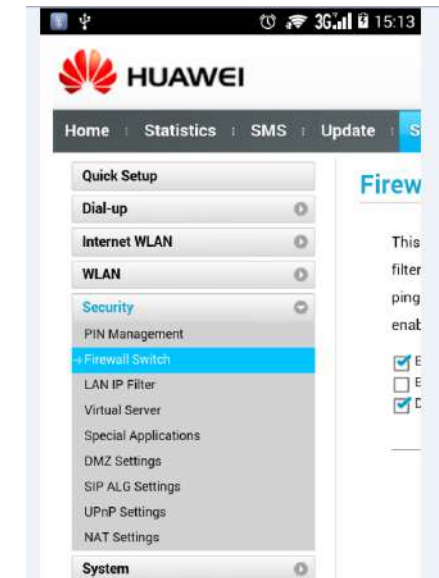
## E5577— safer solution, secure using



- SIMLOCK: The Mobile Wi-Fi only works with the specified USIMs customized; with v3.0 algorithm, unlock code couldn't be deducted from physical ID.
- Digital Signature: Protect the software from tampering.

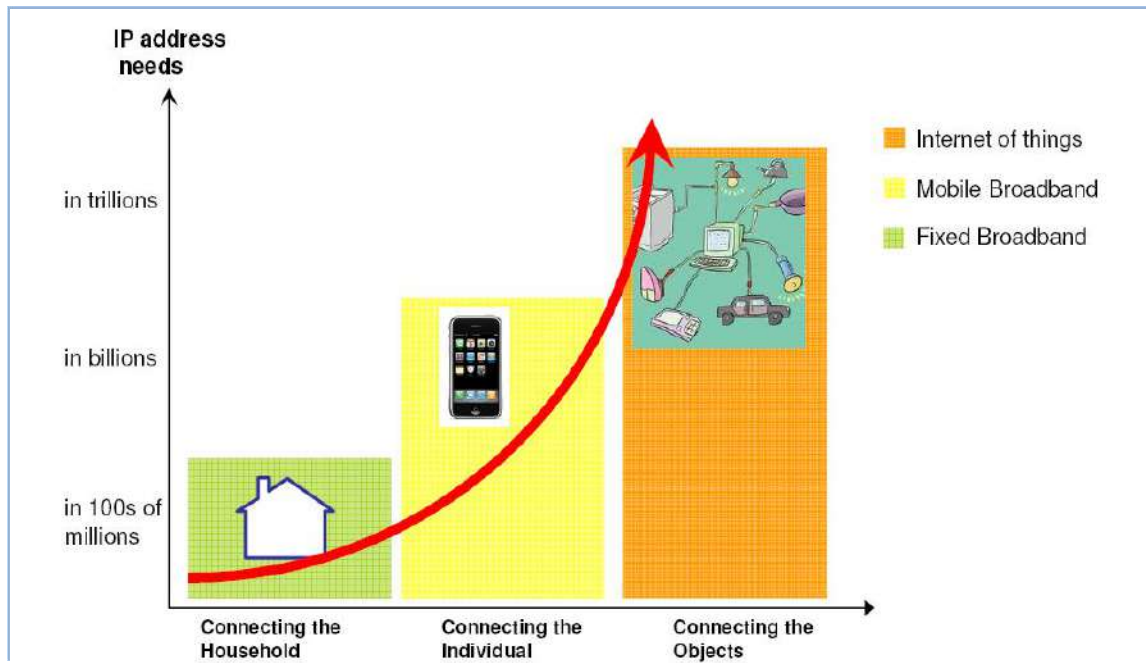


### ➤ Other "Security" features:

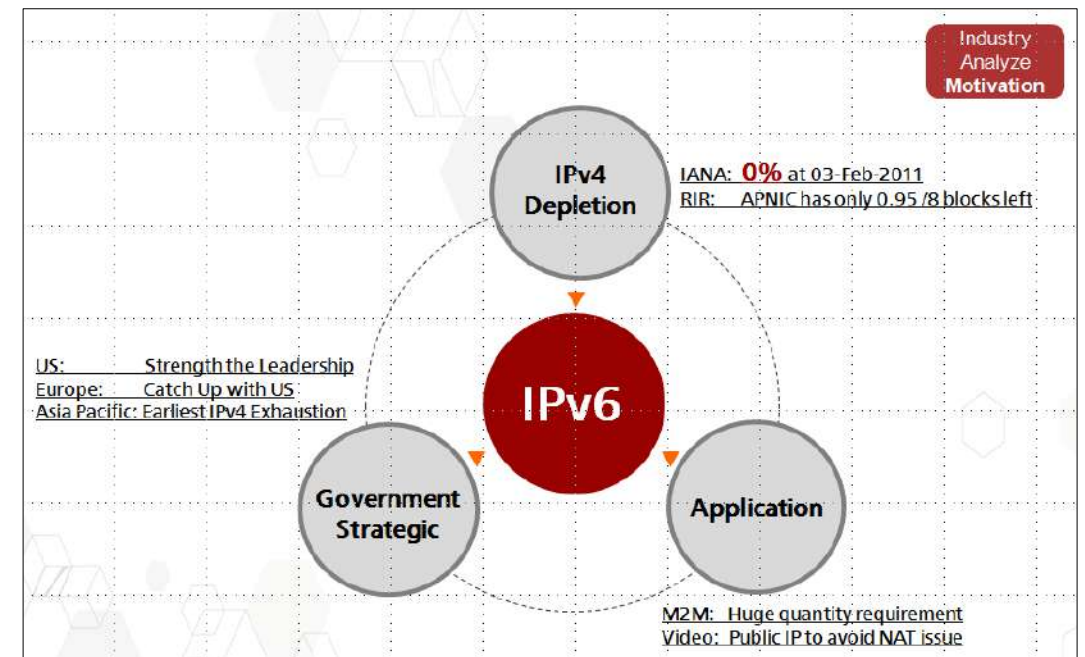


# Others — IPV6 can be customized (customized function)

## A Connected World



## Drivers for IPv6



Most operators will face the IP Address Depletion in Near Future, IPv6 can be customized on E5577 to meet the customers' requirements.

# Others — Wi-Fi Offload can be customized (customized function)

## E5577 can customize Wi-Fi offload



Scenario1: Typical scene  
Wi-Fi offload in indoor  
and outdoor switch



Scenario2: Typical scene Wi-Fi offload  
outdoor and operators hot switching



Scenario3: A typical Wi-Fi repeater in indoor scene

Wi-Fi Offload default turn off, it can be customized as deep customization depend on the network of operators



# INCREDIBLE PERFORMANCE



HISILICON CHIPSET 711M

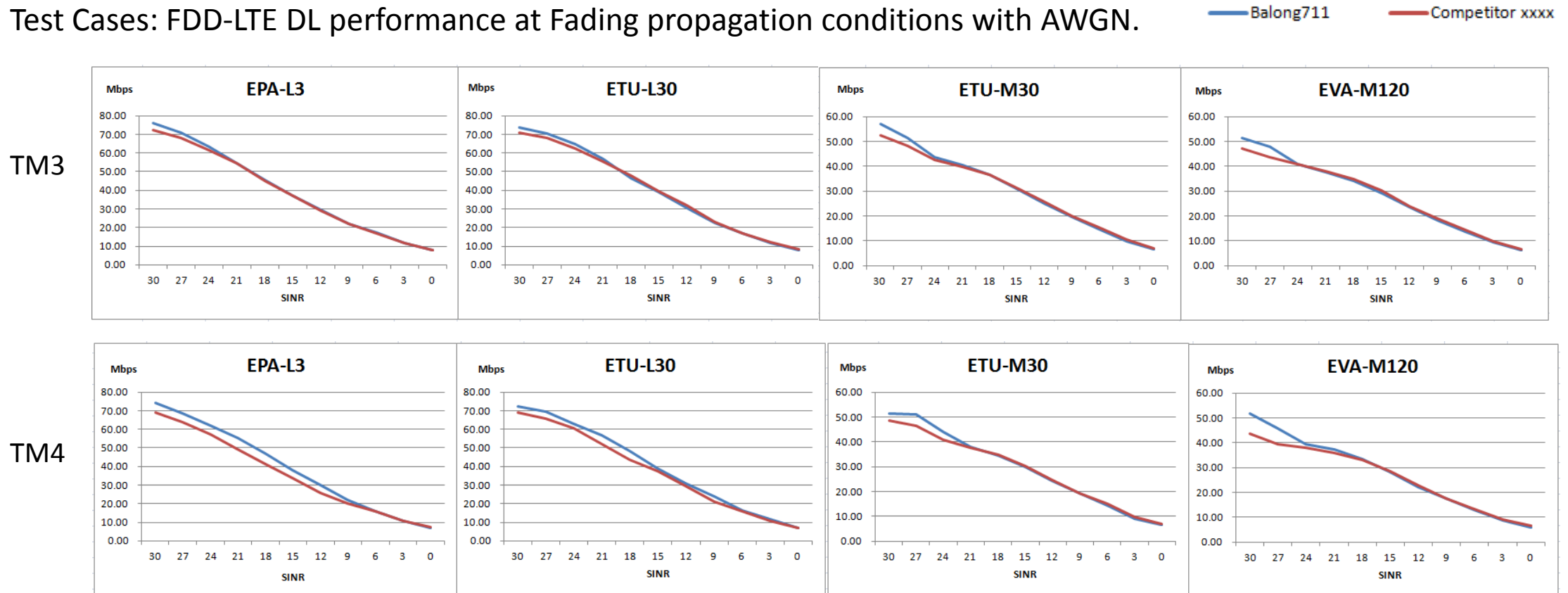
**2**  
Wi-Fi  
Antennas

**150Mbps**  
LTE Cat4

**300Mbps**  
Max Wi-Fi  
Speed

## Balong 711 vs. Competitor—LTE-FDD Performance(1)

Test Cases: FDD-LTE DL performance at Fading propagation conditions with AWGN.



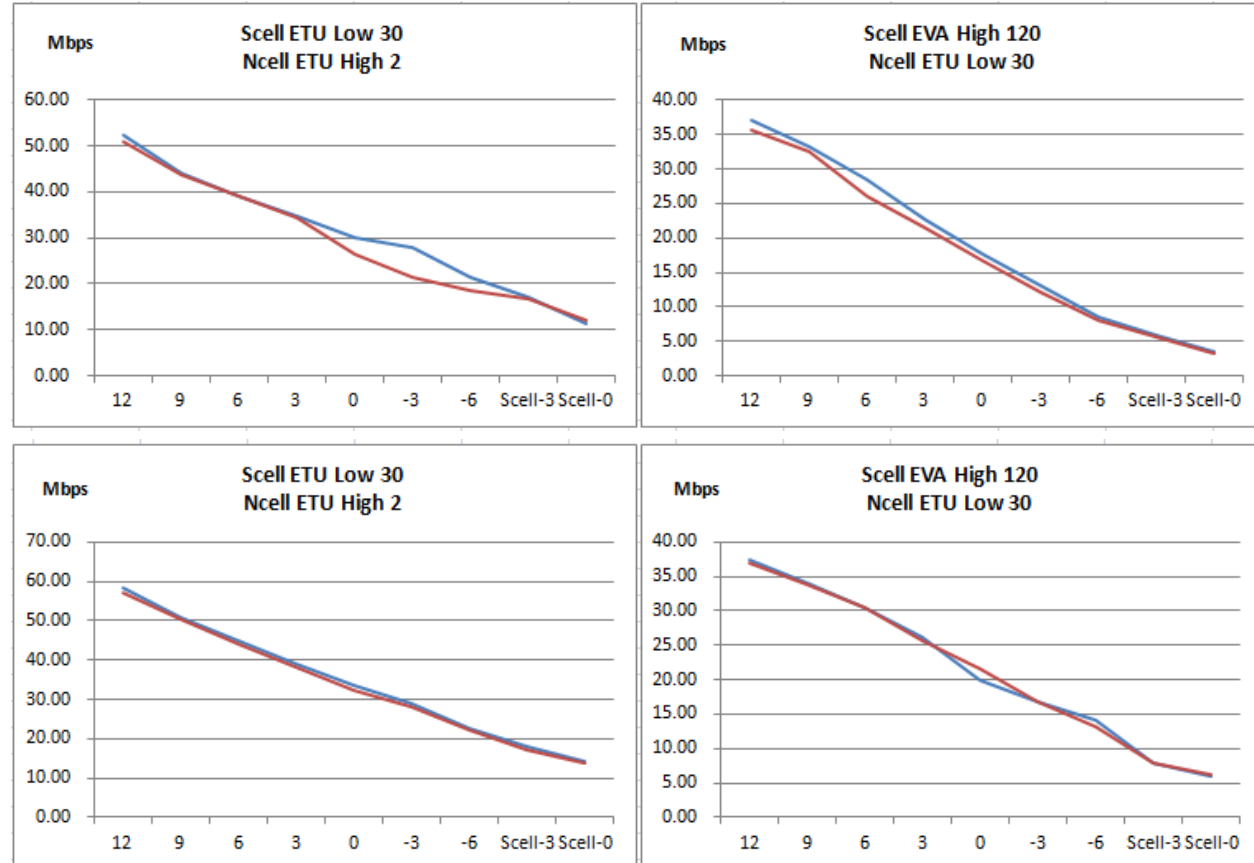
**In High SINR conditions, Balong711 performance is better than Competitor xxxx;  
In Medium/Lower SINR conditions, Balong711 performance is equivalent to Competitor xxxx.**

## Balong 711 vs. Competitor—LTE-FDD Performance(2)

**DL Performance under intra-frequency interference with 100% load**

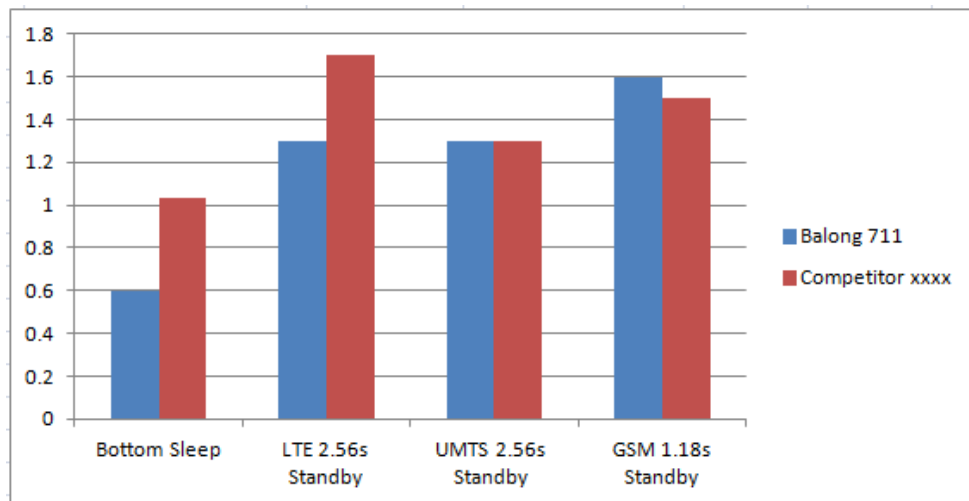
**DL Performance under intra-frequency interference with 50% load**

— Balong711 — Competitor xxxx

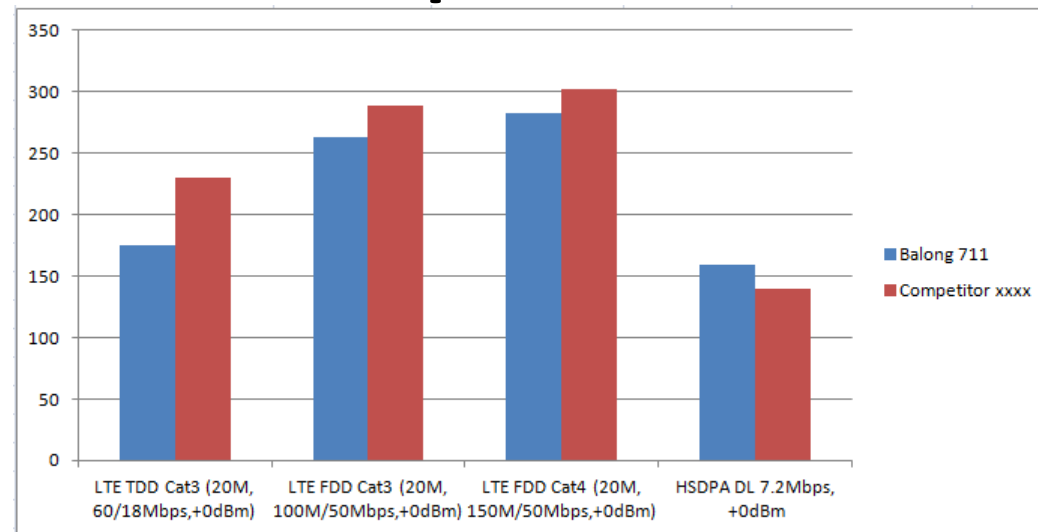


**In most cases, the Balong711 IRC(Interference Rejection Combining) performance is better than Competitor.**

## Balongs 711 vs. Competitor—Power Consumption



| Use Cases          | Balongs 711 |     | Competitor xxxx |
|--------------------|-------------|-----|-----------------|
| Bottom Sleep       | ★           | 0.6 | 1.03            |
| LTE 2.56s Standby  | ★           | 1.3 | 1.7             |
| UMTS 2.56s Standby | ★           | 1.3 | 1.3             |
| GSM 1.18s Standby  |             | 1.6 | 1.5             |



| Use Cases                              | Balongs 711 |     | Competitor xxxx |
|----------------------------------------|-------------|-----|-----------------|
| LTE TDD Cat3 (20M, 60/18Mbps, +0dBm)   | ★           | 175 | 230             |
| LTE FDD Cat3 (20M, 100M/50Mbps, +0dBm) | ★           | 263 | 289             |
| LTE FDD Cat4 (20M, 150M/50Mbps, +0dBm) | ★           | 283 | 302             |
| HSDPA DL 7.2Mbps, +0dBm                |             | 159 | 140             |

In LTE standby and data transmission state, the Balongs 711 solution power consumption is lower than Competitor.

# Other unusual customized functions——software

|   |                  |                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |
|---|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1 | dual SSID        | <p>One E5 device showed two hotspots (SSID), the user can optionally configure each hotspot name / password, such as family with one and a guest with the other one.</p> <p>PS : see diagram (configuration), it's belong to unusual customization:<br/><b>When you customize Wifi offload, you can not customize dual SSID</b></p>                                                               |  |
| 2 | Dual IMSI switch | <p>In the two international network operators, according to the automatic selection of the IMSI location (identity international mobile subscriber identity code and the difference between mobile users), auto switch between the roaming and local number, saving cost.</p> <p>PS: the USIM card is required to support dual IMSI switching function. It's belong to unusual customization.</p> |                                                                                     |
| 3 | multi Language   | <p>WebUI supports multiple languages to choose:</p> <p>Note: the default WEBUI supports 11 languages: English, French, German, Chinese - Spanish, Italian, Spanish, Russian, Portuguese - Portugal, Portuguese, Spanish - Brazil - Argentina, Arabic, customizable 41 languages.</p> <p>PS: the normal customization, has been reflected in the SBOM</p>                                          |                                                                                     |
| 4 | auto APN         | <p>According to the inserted SIM card automatic configuration parameters on the Internet (profile), without the need of customer service, also need not consult the meaning of parameters of the complex.</p> <p>PS: the normal customization, has been reflected in the SBOM</p>                                                                                                                 |                                                                                     |
| 5 | LCD SMS          | <p>View the message content in the LCD, do not need to login WebUI or Mobile WiFi app, a more simple and quick operation. To see the last three text messages, customizable 9 languages: English, French, German, Spanish (Spain), Spanish (Latin America), Italian, Russian, Portuguese (Portugal) and Portuguese (Brazil). Note: unconventional customization.</p>                              |                                                                                     |

Thank You