HUAWEI LTE E5 E5577 Series Presentation

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

HUAWEI

The LTE Cat4 E5 E5577C（no painting）

MAKE it POSSIBLE

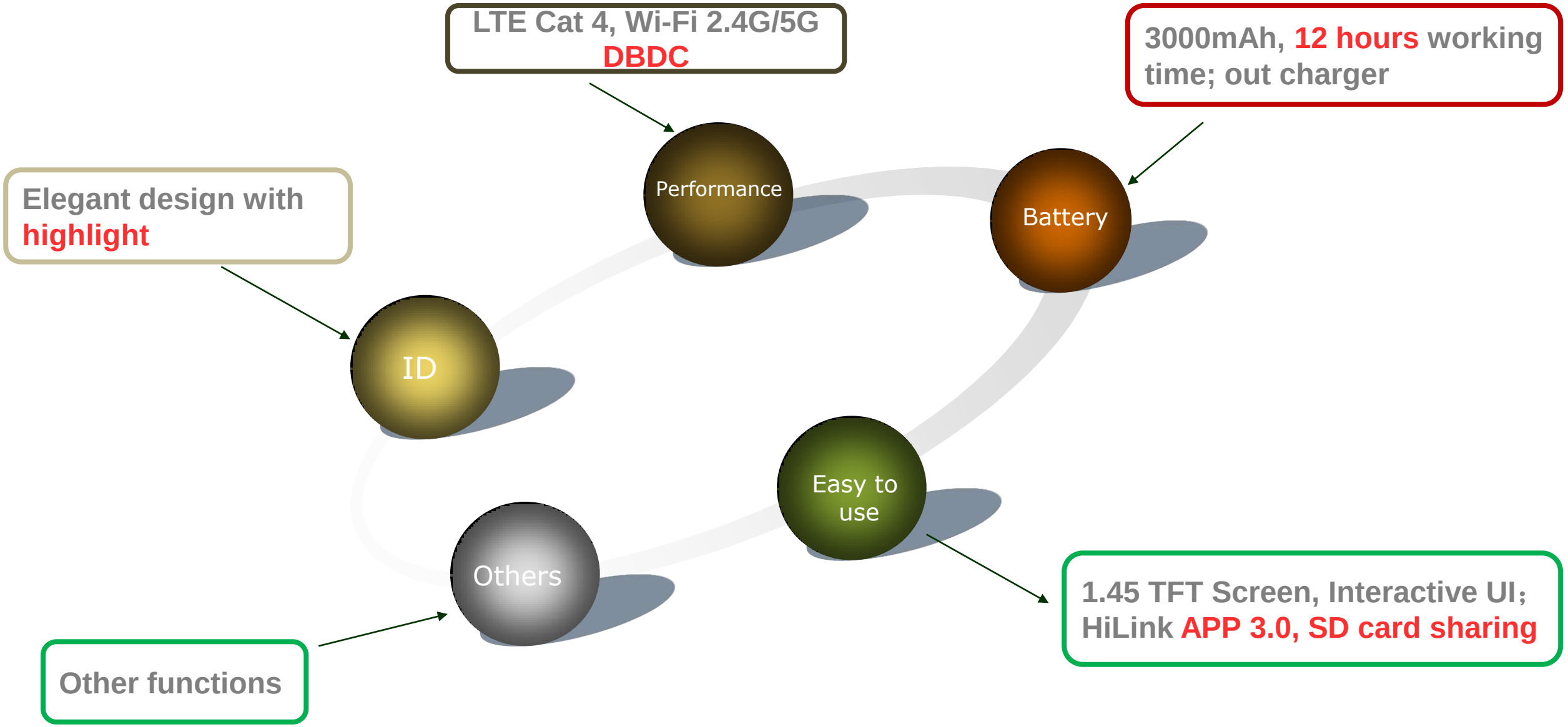
- Elegant ID design
- Support Wi-Fi 2.4G/5G DBDC
- 1.45 TFT Screen, Interactive UI
- HiLink APP 3.0, SD card sharing

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

HUAWEI

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

SLIM

SUITABLE RATIO MAKES IT NOT THICK EVEN 17.3MM HEIGHT

TEXTURE

BEAUTIFUL AND ORNAMENTAL TEXTURE MAKES IT MORE ELGANT

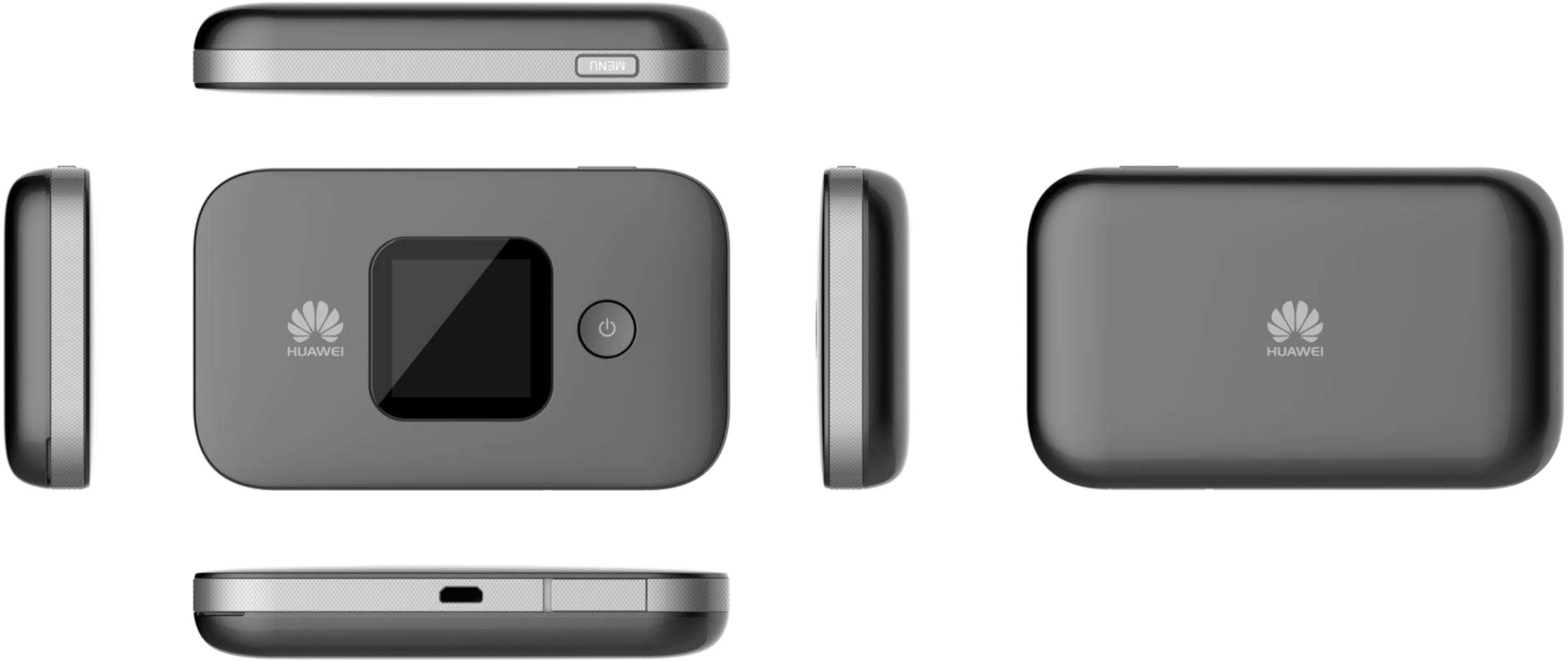
Black is the customized color

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

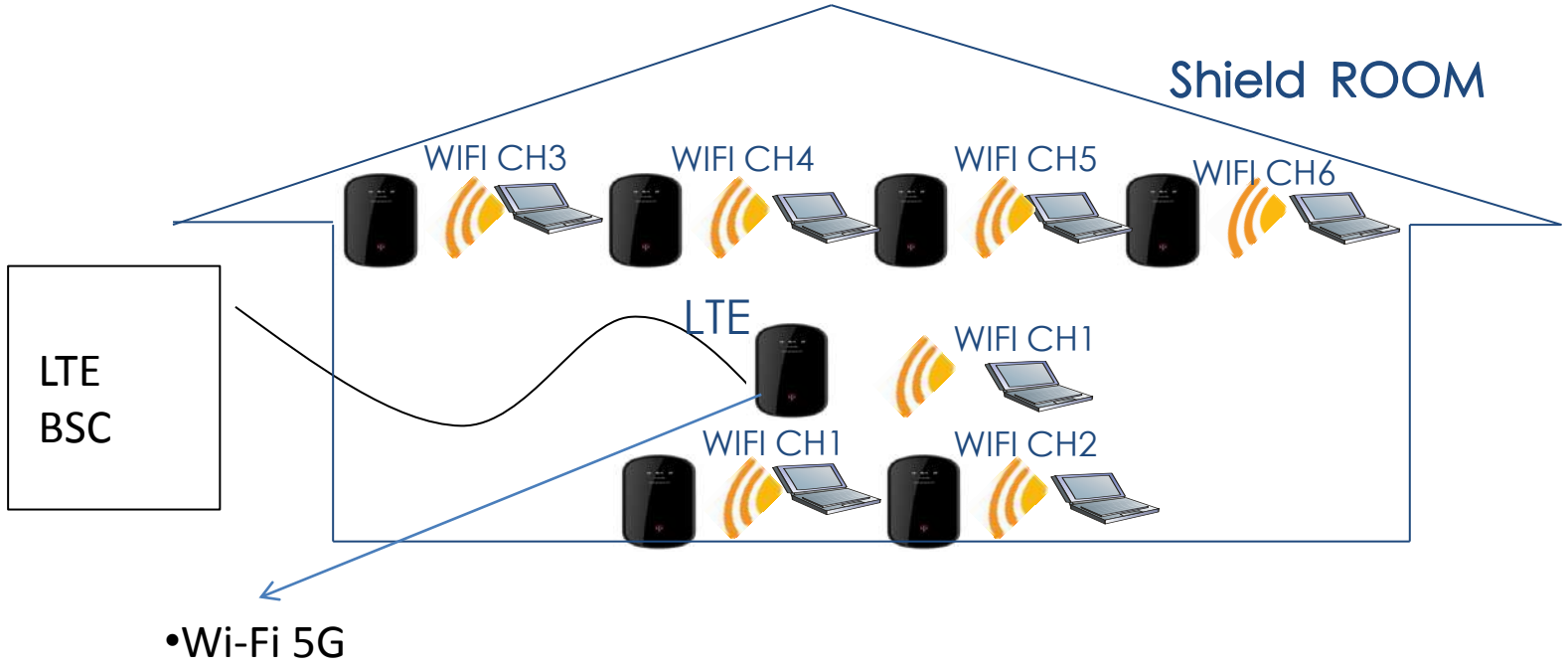
E5577Cs-321 BLACK 6 VIEWS

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.

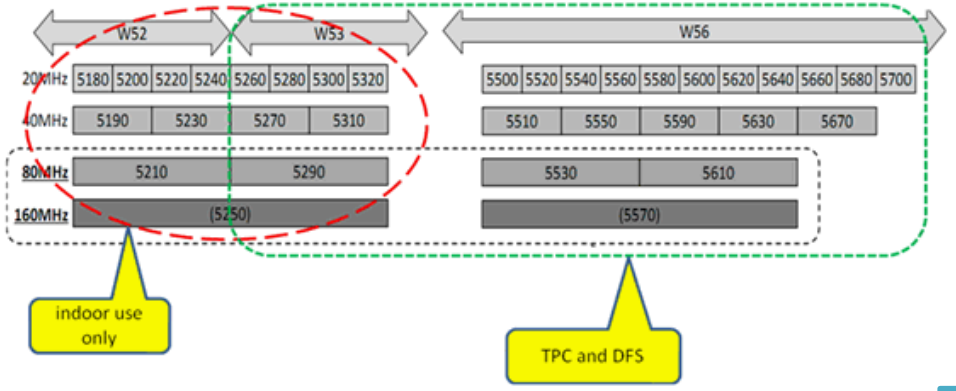


• The frequency of 802.11n contains 2.4G and 5G. While the existing 2.4G equipment more, frequency spectrum resource is very nervous, the WLAN network quality has no effective guarantee.

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.

Cell phone

MP3/4

Earphone

Take E5577 with you

Enjoy Wi-Fi the whole day

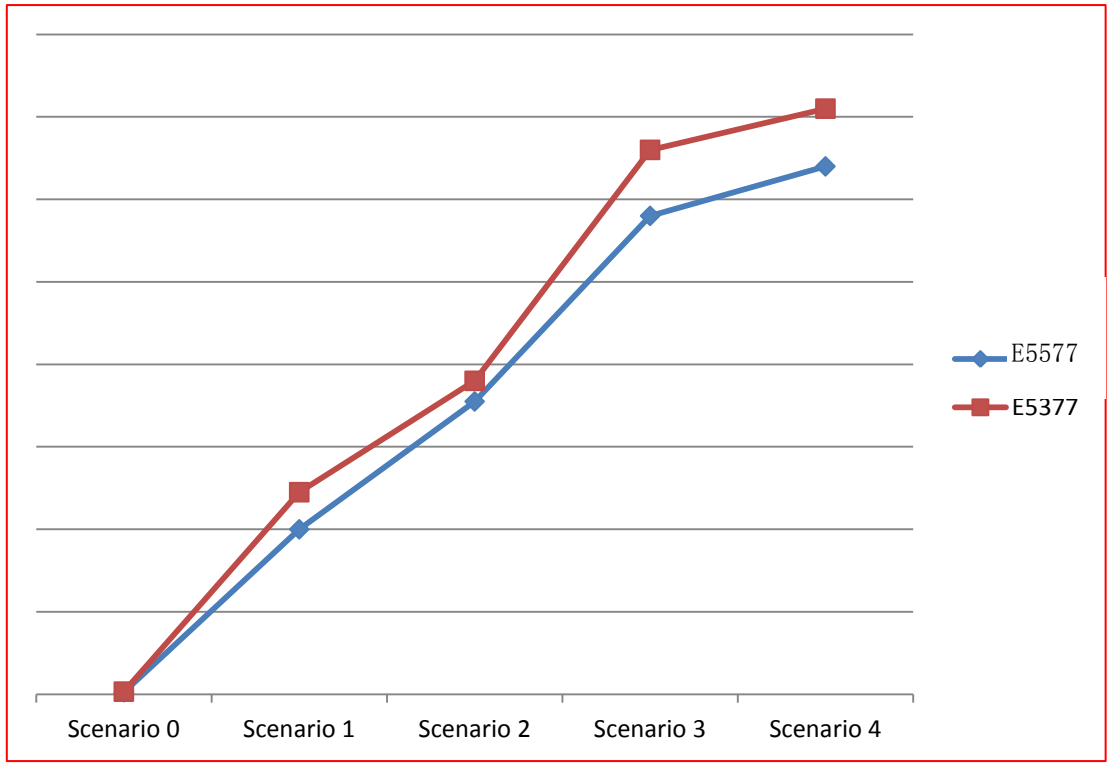
Output Voltage	**5V**
Maximum Output Current	**1A**
Interface	**Micro USB 2.0 HS**

E5577 — Low power consumption

E5577—Lower power consumption

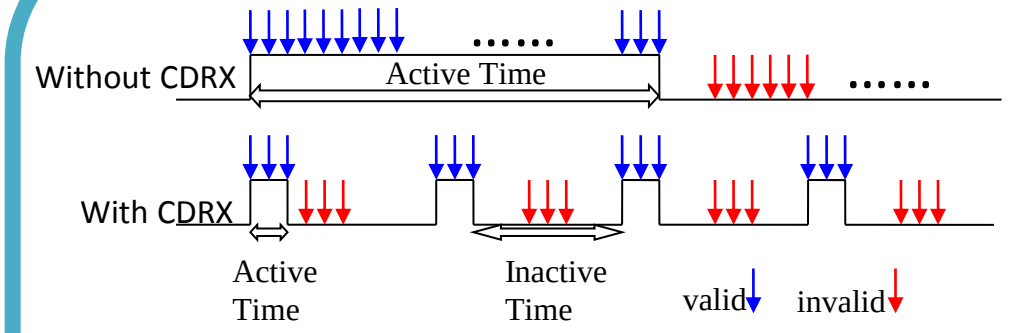
- E5577 can lower 20% power consumption in some certain condition .
- Lower power consumption, longer working time.

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



E5577 — Low power consumption

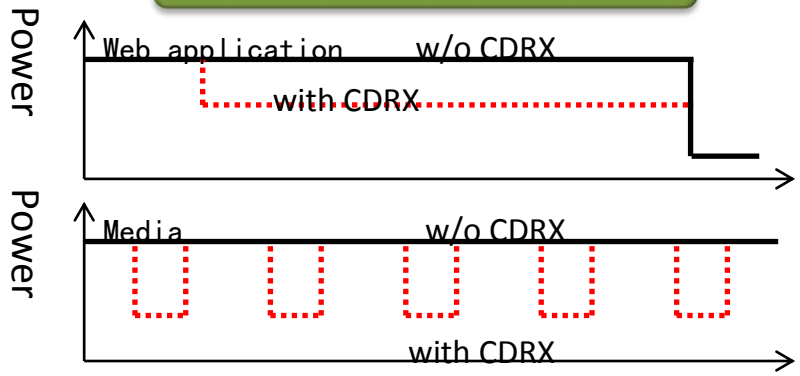
CDRX Technology



- ✓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 IMFORMATION WILL SHOW AT ONCE

E5577 — Interactive Menu UI

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

Display UI

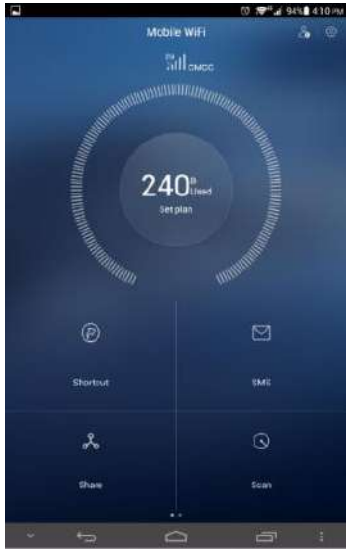
Multi-Languages

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

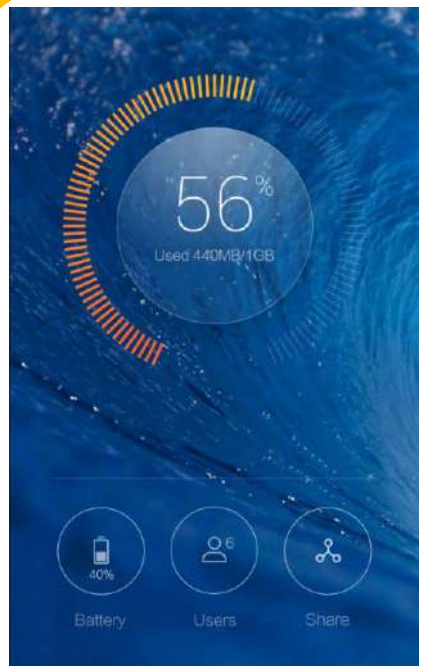


state

sharing

SMS

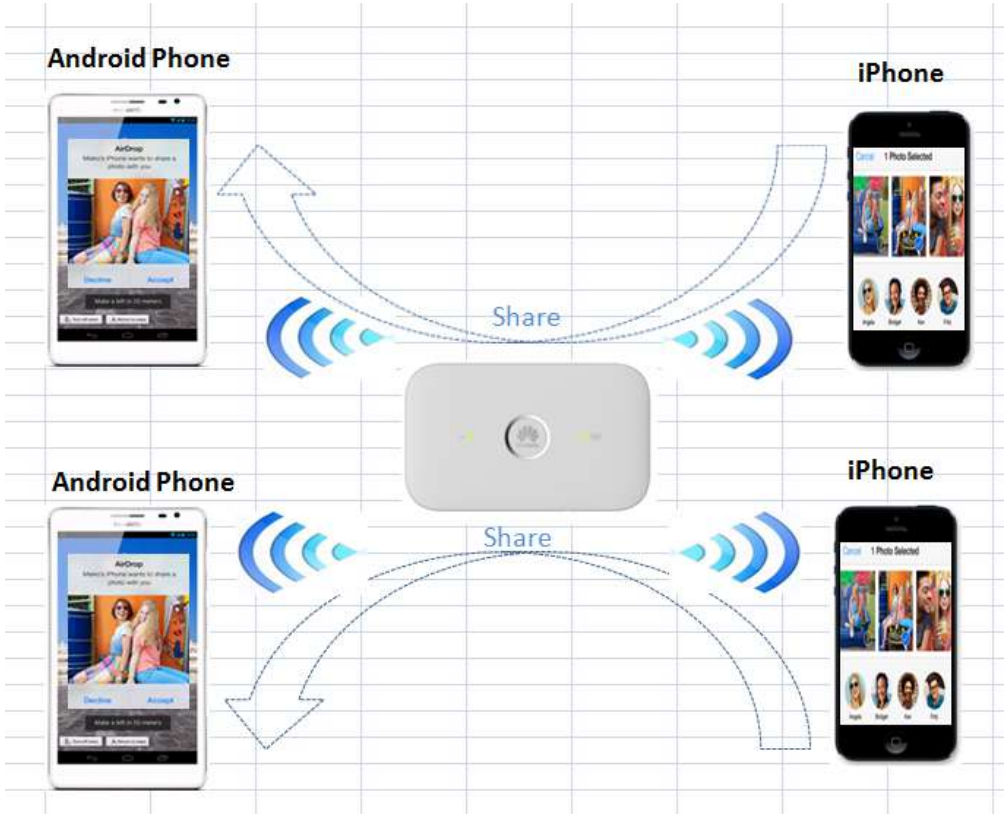
New in HiLink App 3.0

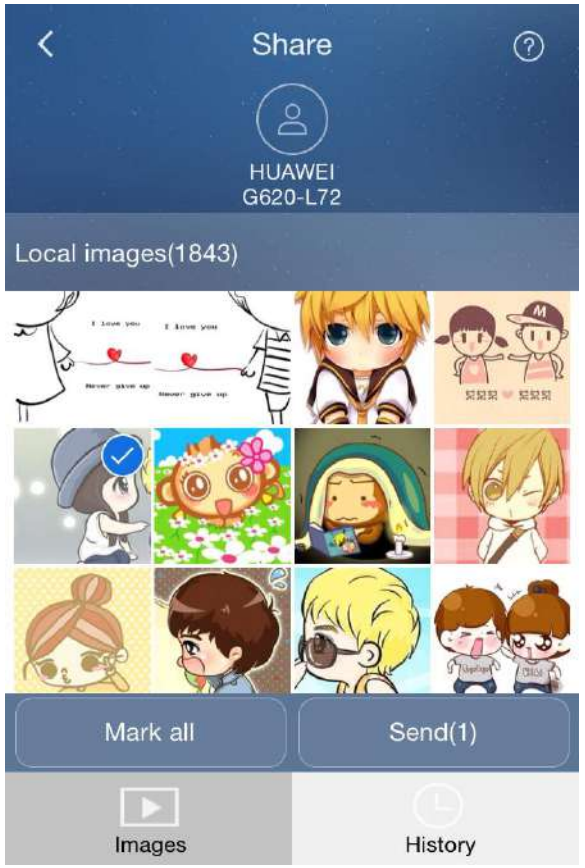


1、new face
2、Traffic statistic and over proof remind
3、new left traffic and left battery percent representation

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

1st generation

Physical ISO to store OEM's private host driver.
Users need to install it manually.

2nd generation

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

3rd generation

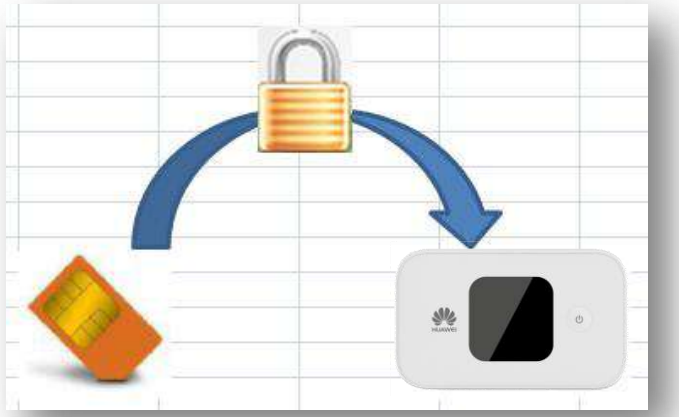
Not need OEM's private host driver.
Using RNDIS, users need to do nothing, faster and easier.

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.*

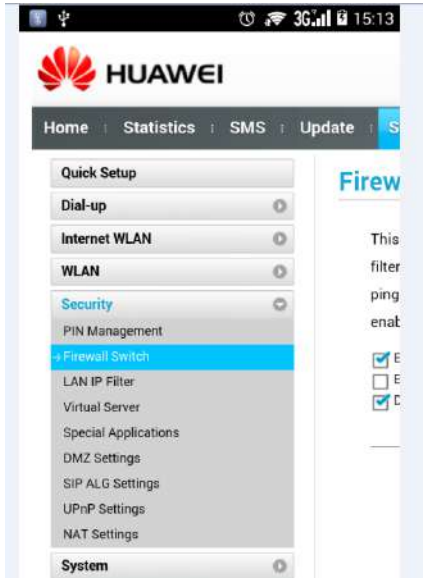
Others —— Safer wifi network connection（customized function）

E5577— safer solution, secure using



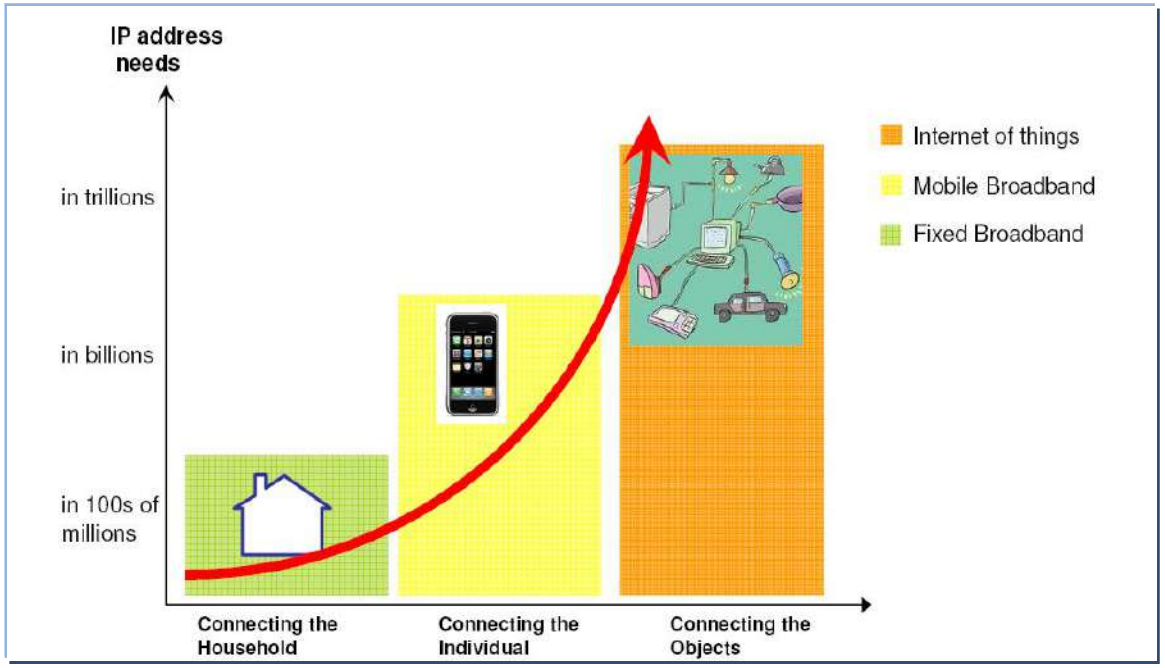
- SIMLOCK: The Mobile Wi-Fi only works with the specified USIMs customized; with v3.0 algorithm, unlock code couldn't be deducted from physical ID.
- Digital Signature: Protect the software from tampering.

- Other "Security" features:

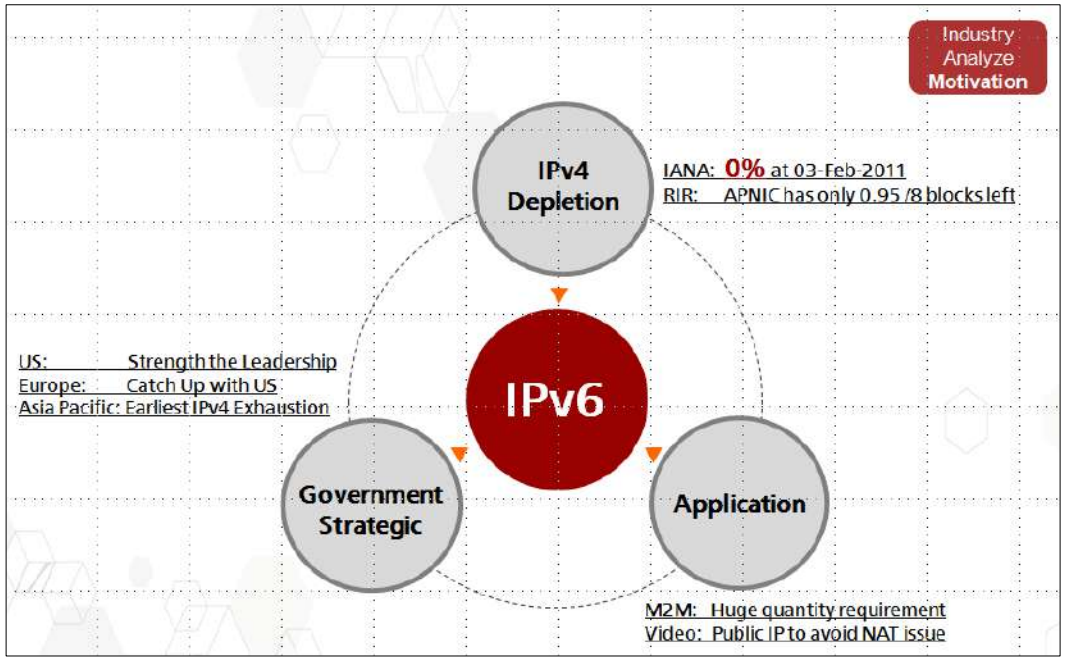


Others —— IPV6 can be customized（customized function）

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

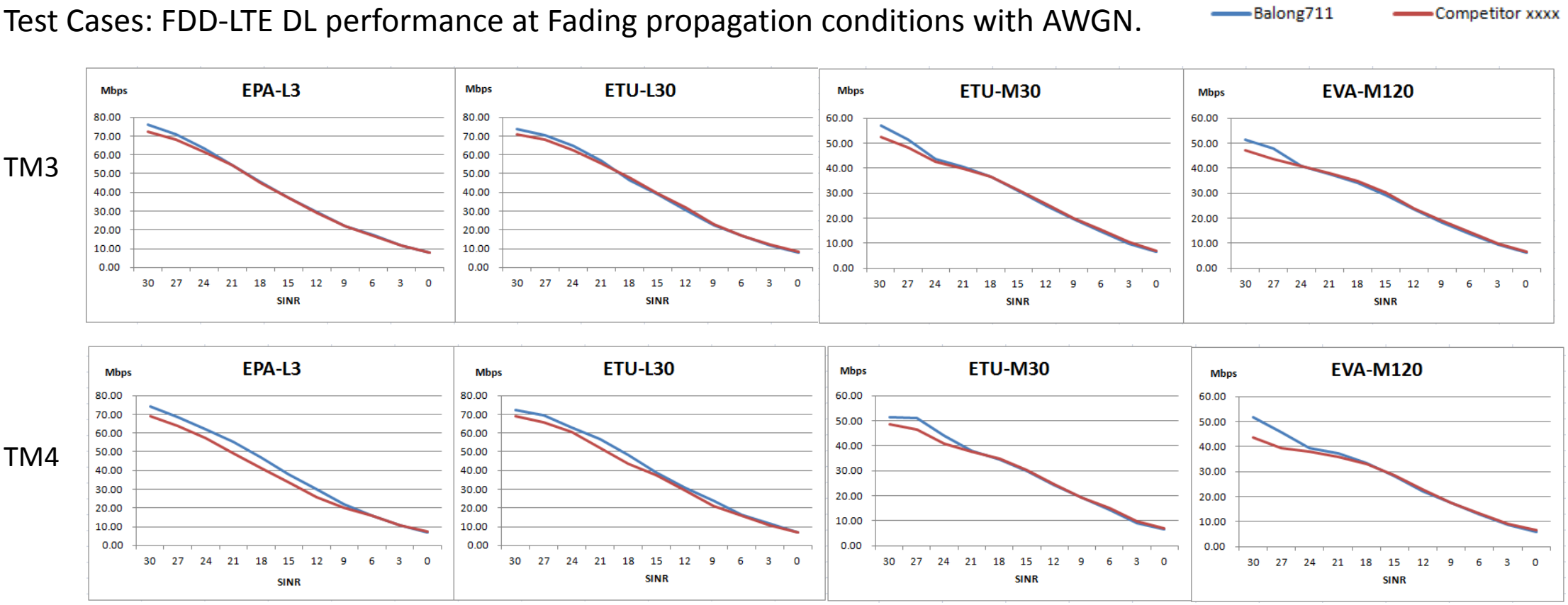
INCREDIBLE PERFORMANCE

HISILICON CHIPSET 711M

2	150Mbps	300Mbps
Wi-Fi Antennas	LTE Cat4	Max Wi-Fi Speed

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

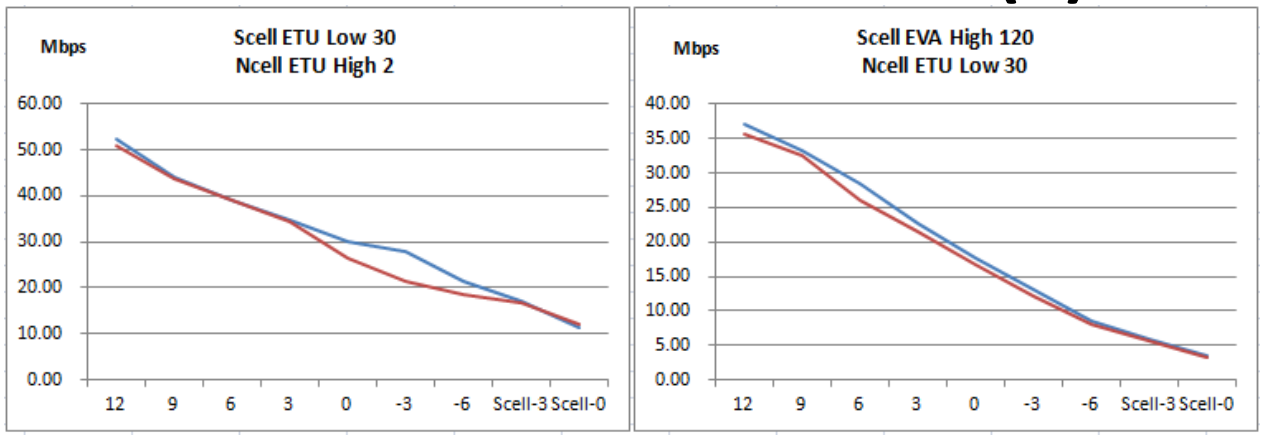
Test Cases: FDD-LTE DL performance at Fading propagation conditions with AWGN.



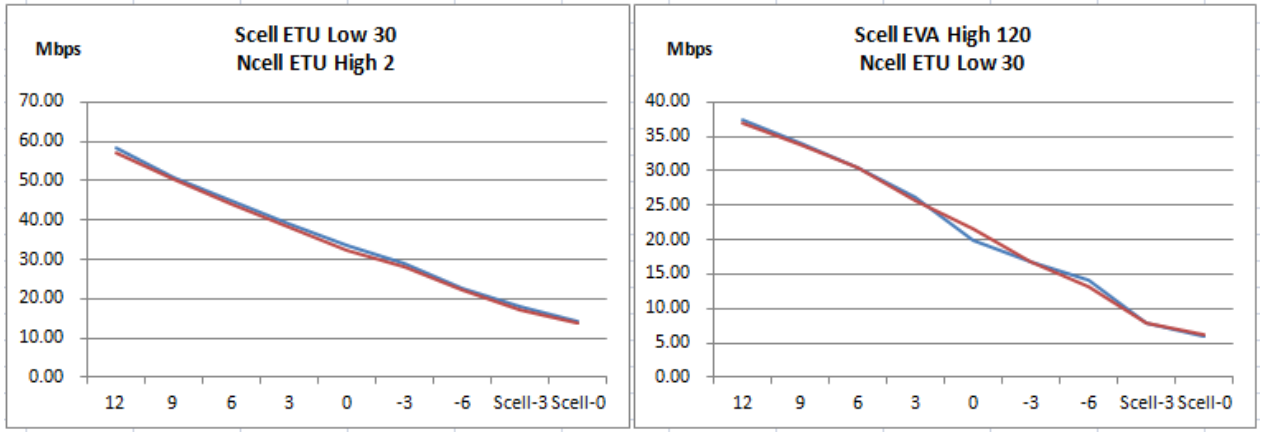
In High SINR conditions, Balong711 performance is better than Competitor xxxx;
In Medium/Lower SINR conditions, Balong711 performance is equivalent to Competitor xxxx.

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

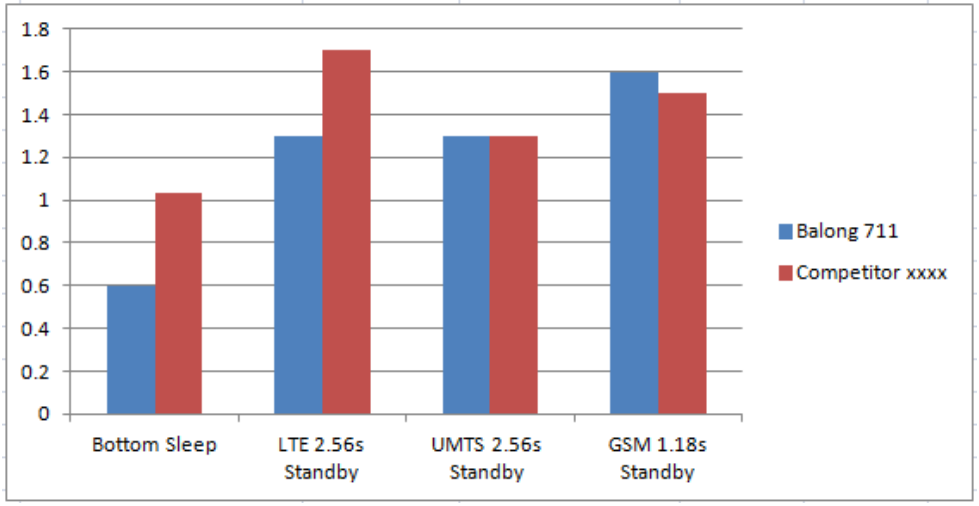


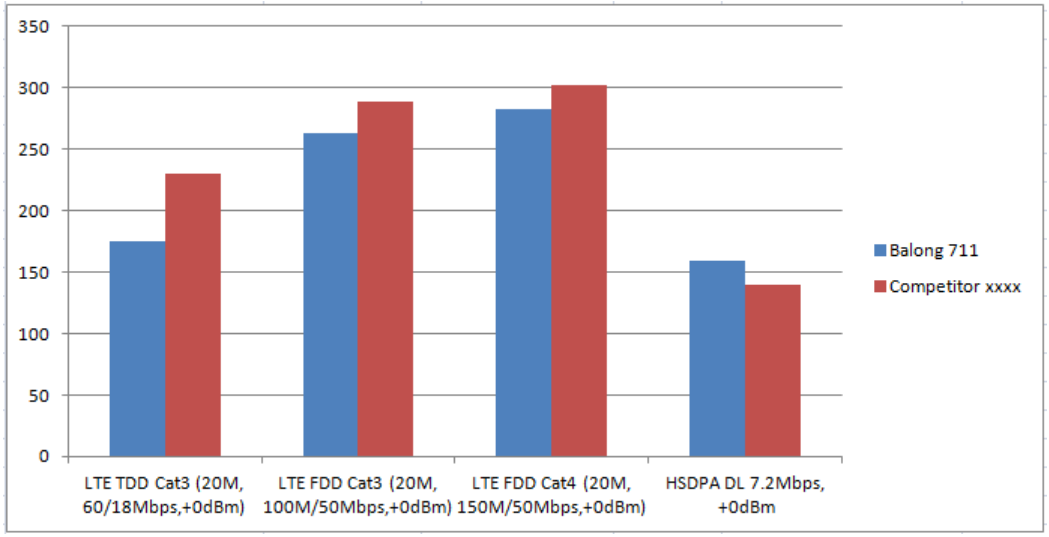
Balong711 Competitor xxxx

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

Others —— Chipset

Balong 711 vs. Competitor—Power Consumption





Use Cases	Balong711	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	Balong711	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 Balong711 solution power consumption is lower than Competitor.

Other unusual customized functions——software

1	dual SSID	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. PS： see diagram (configuration)，it‘s belong to unusual customization； When you customize Wifi offload, you can not customize dual SSID
2	Dual IMSI switch	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. PS: the USIM card is required to support dual IMSI switching function. It's belong to unusual customization.
3	multi Language	WebUI supports multiple languages to choose： 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. PS: the normal customization, has been reflected in the SBOM
4	auto APN	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. PS: the normal customization, has been reflected in the SBOM
5	LCD SMS	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.

Thank You