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V5.0	

# K5150 Enterprise Firmware v5.0

## Release Notes

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## Revision record

Date	Revision version	FW Version	HW Version	change Description	Author
2014-09-17	V1.0	21.436.11.DM1.11	CH1K5150M	Creating version	Chenqiming
2014-10-27	V2.0	21.436.11.11.11	CH1K5150M	TA Release version	Wangfei
2014-11-11	V3.0	21.436.11.12.11	CH1K5150M	TA Release version	Wangfei
2014-12-3	V4.0	21.436.11.13.11	CH1K5150M	TA Release version	Wangfei
2015-2-28	V5.0	21.436.11.14.11	CH1K5150M	TA Release version	Wangfei



## Table of Contents

1	Main Features .....	4
2	Hardware .....	4
2.1	Version Description .....	4
2.2	Hardware specifications .....	5
2.3	Improvements in the previous version .....	5
2.4	Known limitations and issues .....	5
3.	Firmware .....	6
3.1	Version Description .....	6
3.2	Software Specifications .....	6
3.3	Baseline Information.....	6
3.4	Improvement in the previous version .....	7
	Version: K5150 Enterprise Release v5.0 .....	7
	Version: K5150 Enterprise Release v4.0 .....	7
	Version: K5150 Enterprise Release v3.0 .....	7
	Version: K5150 Enterprise Release v2.0 .....	7
	Version: K5150 Enterprise Demo v1.0 .....	7
3.5	Known Limitations and Issues.....	8
3.5.1	Firmware Known Issues or Limitation.....	8
3.5.2	Unresolved Issue List.....	8

# K5150 Enterprise Release Notes

## 1 Main Features

K5150 supports the following standards:

- FDD-LTE 800/1800/2600/2100/900MHz and HSPA+/ HSDPA/HSUPA/WCDMA(UMTS) 2100/1900/900/850 MHz and GSM/GPRS/EDGE 850/900/1800/1900 MHz
- LTE packet data service up to 150M(MBIM)/100Mbit/s(Downlink) and 50Mbit/s(Uplink)
- DC-HSPA+ packet data service of up to 43.2Mbit/s
- HSPA+/HSDPA packet data service of up to 21.6 Mbit/s
- HSUPA packet data service of up to 5.76 Mbit/s
- WCDMA PS domain data service of up to 384 Kbit/s
- EDGE packet data service of up to 236.8 Kbit/s
- GPRS packet data service of up to 85.6 Kbit/s
- Dual internal antenna
- USB Stick, easy to connect
- Micro Secure Digital Memory Card up to 32GB
- Standard USB interface, auto installation
- SMS based on CS/Packet Switched (PS) domain of GSM and WCDMA, supporting group sending of messages
- USSD service
- Convenient for use Windows XP/Windows Vista/Windows 7/Windows 8 (MBIM)/Linux/MAC operating system (OS)

## 2 Hardware

### 2.1 Version Description

Hardware version:	CH1K5150M
Platform & Chipset :	Balong Hi6920

## 2.2 Hardware specifications

Item	Specifications
Technical standard	<ul style="list-style-type: none"> <li>• LTE: 3GPP R9</li> <li>• HSPA+/UMTS:3GPP R99/R5/R6/R7/R8</li> <li>• GSM/GPRS/EGRPS :3GPP R99</li> </ul>
External interfaces	USB interface: USB 2.0 high-speed interface
	LED: indicating the status of the network
	SIM/USIM card: standard 6-pin SIM card interface
Maximum transmitter power	FDD-LTE 800/1800/2600/2100/900 MHz: 23dBm +2/-2 (Power Class 3)
	HSPA+/HSUPA/HSDPA/UMTS 850/ 900/ 1900/ 2100 MHz: +24dBm +1/-3 (Power Class 3)
	GSM/GPRS 850/900MHz: +33dBm +/-2 (Power Class 4)
	GSM/GPRS 1800 MHz/1900MHz: +30dBm +/-2 (Power Class 1)
	EDGE 850/900MHz: +27dBm +/-3 (Power Class E2)
	EDGE 1800MHz/1900MHz: +26dBm +/-3 (Power Class E2)
Maximum power consumption	<3.5W (under testing now)
Power supply	5V / 500mA
Dimensions (D × W × H)	33.4mm*95.5mm*14.0mm
Weight	<35g
Temperature	<ul style="list-style-type: none"> <li>• Operating: -10℃ to +40℃</li> <li>• Storage: -20℃ to +70℃</li> </ul>
Humidity	5% to 95%

## 2.3 Improvements in the previous version

No.	Description
NA	

## 2.4 Known limitations and issues

No.	Description
NA	

### 3. Firmware

#### 3.1 Version Description

Firmware version: 21.436.11.14.11

The firmware version supports driver of Windows NDIS driver 5.05.02.11, Mac driver 5.01.03.00

K5150 supports PID 0x1C26 (NDIS) and 0x15EC (MBIM)

#### 3.2 Software Specifications

Item	Specifications
Data service	<p>GPRS:</p> <ul style="list-style-type: none"><li>• Uplink: 85.6 kbit/s</li><li>• Downlink: 85.6 kbit/s</li></ul> <p>EDGE:</p> <ul style="list-style-type: none"><li>• Uplink: 236.8 kbit/s</li><li>• Downlink: 236.8 kbit/s</li></ul> <p>UMTS PS domain:</p> <ul style="list-style-type: none"><li>• Uplink: 384 kbit/s</li><li>• Downlink: 384 kbit/s</li></ul> <p>HSDPA:</p> <ul style="list-style-type: none"><li>• 14.4 Mbit/s</li></ul> <p>HSUPA:</p> <ul style="list-style-type: none"><li>• 5.76 Mbit/s</li></ul> <p>HSPA+:</p> <ul style="list-style-type: none"><li>• 21.6 Mbit/s</li></ul> <p>DC HSPA+</p> <ul style="list-style-type: none"><li>• Uplink: 5.76 Mbit/s</li><li>• Downlink: 43.2 Mbit/s</li></ul> <p>LTE</p> <ul style="list-style-type: none"><li>• Uplink: 50 Mbit/s</li><li>• Downlink: 100 Mbit/s /150Mbit/s(MBIM)</li></ul>
SMS	SMS over SGS

#### 3.3 Baseline Information

K5150 is based on Balong platform V7R1, The current firmware version 21.436.11.14.11.

### 3.4 Improvement in the previous version

Version: K5150 Enterprise Release v5.0

No	Description
<b>Firmware</b>	21.436.11.14.11
1	support security update

Version: K5150 Enterprise Release v4.0

No	Description
<b>Firmware</b>	21.436.11.13.11
1	Implement the requirement that LTE solid connection should have been Purple.
2	Implement the general requirements on Hilink version 22.436.11.11.5011 (v7.0) for enterprise version.

Version: K5150 Enterprise Release v3.0

No	Description
<b>Firmware</b>	21.436.11.12.11
1	Solve that UE can't attach Vodafone LTE network

Version: K5150 Enterprise Release v2.0

No	Description
<b>Firmware</b>	21.436.11.11.11
1	Official TA Release Version

Version: K5150 Enterprise Demo v1.0

No	Description
<b>Firmware</b>	21.436.11.DM1.11
1	Initial demo firmware v0.1
2	Supports NDIS 6.20 for Win7 & previous Windows OS, MBIM for Win8 & later.



3	VF friendly naming following legacy USB data stick devices
4	Unique PID for K5150 Enterprise SKU
5	Standard VF customized updater
6	Non-PnP, No CD-Rom, no SD

## 3.5 Known Limitations and Issues

### 3.5.1 Firmware Known Issues or Limitation

ID	Severity	Summary

### 3.5.2 Unresolved Issue List

ID	Severity	Summary
N.A.		