|  |  |
| --- | --- |
| Product name | Confidentiality level |
| E5885Ls-93a | CONFIDENTIAL |
| Product version | Total 10 pages |
| V200R001 |

E5885Ls-93a Firmware Release Notes

V1.0

|  |  |  |  |
| --- | --- | --- | --- |
| Prepared by | E5885Ls-93a Team | Date | 2017-12-28 |
| Reviewed by | E5885Ls-93a Team | Date | 2017-12-28 |
| Approved by | E5885Ls-93a Team | Date | 2017-12-28 |



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Revision Record

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date | Revision version | FW-WebUI/HiLink  Version | Change Description | Author |
| 2017-8-15 | 1.0 | FW 21.182.63.00.00 | The 1st Version | E5885Ls-93a  Team |
| 2017-12-28 | 1.0 | FW  21.187.61.00.00 | MR Version | E5885Ls-93a  Team |
| 2018-04-28 | 1.0 | FW  21.189.61.00.00 | MR Version | E5885Ls-93a  Team |
| 2018-05-31 | 1.0 | FW  21.189.63.00.00 | MR Version | E5885Ls-93a  Team |
| 2018-08-23 | 1.0 | FW  21.190.61.00.00 | MR Version | E5885Ls-93a  Team |
| 2018-11-19 | 1.0 | FW 21.190.63.00.00 | MR Version | E5885Ls-93a  Team |
| 2019-1-17 | 1.0 | FW 21.191.61.00.00 | MR Version | E5885Ls-93a  Team |
| 2019-3-11 | 1.0 | FW  21.191.63.00.00 | MR Version | E5885Ls-93a  Team |
| 2019-6-13 | 1.0 | FW  21.191.65.00.00 | MR Version | E5885Ls-93a  Team |
| 2019-10-17 | 1.0 | FW  21.191.67.00.00 | MR Version | E5885Ls-93a  Team |
| 2019-10-30 | 1.0 | FW  21.191.69.00.00 | MR Version | E5885Ls-93a  Team |

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# Main Features

The E5885ls-93a supports the following standards:

* LTE data service up to 300 Mbit/s(cat 6)
* HSPA+ data service up to 21.6 Mbit/s
* HSDPA packet data service of up to 14.4 Mbit/s
* HSUPA data service up to 5.76 Mbit/s
* WCDMA PS domain data service of up to 384Kbps
* EDGE data service up to 296kbps
* GPRS data service up to 85.6 kbps
* Data and SMS Service
* Support WiFi 2\*2; 2.4G/5G ,WIFI 802.11a/b/g/n/ac，40MHz(11n)，80MHz (11ac)
* Micro USB 2.0 interface
* WEB UI, Auto connect
* Plug and play
* Standard USB2.0
* Support Windows and MAC OS with the latest version..

# Hardware

## **Version Description**

|  |  |
| --- | --- |
| Hardware Version: | CL1E5885SM Ver.A |
| Platform & Chipset: | Balong V722  WiFi Hisi 1151 |

## **Hardware Specifications**

| Item | Specifications | |
| --- | --- | --- |
| Technical Standard | LTE | 3GPP R10 |
| WCDMA | 3GPP R8 |
| Operating Frequency | LTE | LTE FDD:  B1/B2/B3/B4/B5/B7/B8/B19/B20  LTE TDD: B38/B40/B41 |
| WCDMA | B1/B2/B4/B5/B6/B8/B19 |
| GSM | 850/900/1800/1900Mhz |
| Memory | 256MB | |
| WLAN Rate | 802.11b: Up to 11 Mbit/s | |
| 802.11g: Up to 54 Mbit/s | |
| 802.11n: HT20: Support MCS0–MCS7; Up to 72.2 Mbit/s.  Support MCS8–MCS15; Up to 144.4 Mbit/s.  HT40: Support MCS0–MCS7; Up to 150 Mbit/s.  Support MCS8–MCS15; Up to 300 Mbit/s. | |
| External Interfaces | USB: Micro USB 2.0 | |
| LCD | |
| Ethernet port: RJ45 | |
| Standard microSD card interface | |
| SIM/USIM card: USIM | |
| Keys | 1 Power,1 Reset,1 WPS | |
| Battery | 6400mAH | |
| Ambient Temperature | Operating: 0°C to +35°C  Storage: -20°C to +60°C | |
| Humidity | 5% to 95% (non-condensing) | |

## **Improvements in the Previous Version**

| Index | Case ID | Issue Description |
| --- | --- | --- |
| NA |  |  |

## **Known Limitations and Issues**

| Index | Case ID | Issue Description |
| --- | --- | --- |
| NA |  |  |

# Firmware

## **Version Description**

|  |  |
| --- | --- |
| Firmware Version: | 21.191.69.00.00 |
| Baseline information | Balong V7R22 C60B191 |
|  |  |

## **Firmware Specifications**

| Item | Specifications |
| --- | --- |
|  |  |
|  |  |

## **Improvement in the Previous Version**

| Index | Case ID | Issue Description |
| --- | --- | --- |
|  |  |  |
|  |  |  |

## **Known Limitations and Issues**

|  |  |  |
| --- | --- | --- |
| **Index** | **Case ID** | **Issue Description** |
| 1 |  |  |

# WebUI/HiLink

## **Version Description**

|  |  |
| --- | --- |
| WebUI/HiLink Version: | 21.100.52.01.03 |

## **WebUI/HiLink Specifications**

|  |  |
| --- | --- |
| Item | Specifications |
|  |  |
|  |  |

## **Improvement in the Previous Version**

|  |  |  |
| --- | --- | --- |
| **Index** | **Case ID** | **Issue Description** |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |

## **Known Limitations and Issues**

|  |  |  |
| --- | --- | --- |
| **Index** | **Case ID** | **Issue Description** |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |

# Software Vulnerabilities Fixes

*[Software Vulnerabilities include Android Vulnerability, Third-party software Vulnerability, and Huawei Vulnerability]*

*[Android Vulnerability is from Google, which reported publicly.]*

*[Third-party software is a type of computer software that is sold together with or provided for free in Huawei products or solutions with the ownership of intellectual property rights (IPR) held by the original contributors. Third-party software can be but is not limited to: Purchased software, Software that is built in or attached to purchased hardware, Software in products of the original equipment manufacturer (OEM) or original design manufacturer (ODM), Software that is developed with technical contribution from partners (ownership of IPR all or partially held by the partners), Software that is legally obtained free of charge.*

*The data of third-party software vulnerabilities fixes can be exported from PDM.*

*If the table is excessively long, you can divide it into multiple ones by product version, or deliver it in an excel file with patch release notes and provide reference information in this section.]*

*[Huawei Vulnerability is Huawei own software’ Vulnerability, which found by outside]*

*Vulnerabilities information is available through CVE IDs in NVD (National Vulnerability Database) website:* [*http://web.nvd.nist.gov/view/vuln/search*](http://web.nvd.nist.gov/view/vuln/search)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Software/Module name** | **Version** | **CVE ID** | **Vulnerability Description** | **Impact Description** |
| *linux\_kernel* | *3.10.100* | *CVE-2017-10661* | *Race condition in fs/timerfd.c in the Linux kernel before 4.10.15 allows local users to gain privileges or cause a denial of service (list corruption or use-after-free) via simultaneous file-descriptor operations that leverage improper might\_cancel queueing.* | [*https://github.com/torvalds/linux/commit/1e38da300e1e395a15048b0af1e5305bd91402f6*](https://github.com/torvalds/linux/commit/1e38da300e1e395a15048b0af1e5305bd91402f6) |
| *linux\_kernel* | *3.10.100* | *CVE-2017-14106* | *The tcp\_disconnect function in net/ipv4/tcp.c in the Linux kernel before 4.12 allows local users to cause a denial of service (\_\_tcp\_select\_window divide-by-zero error and system crash) by triggering a disconnect within a certain tcp\_recvmsg code path.* | [*https://github.com/torvalds/linux/commit/499350a5a6e7512d9ed369ed63a4244b6536f4f8*](https://github.com/torvalds/linux/commit/499350a5a6e7512d9ed369ed63a4244b6536f4f8) |
| *linux\_kernel* | *3.10, 3.18* | *CVE-2017-0630* | *Information disclosure in the kernel could reveal the locations of strings that are used in some printk messages that describe the layout of the constants section of the kernel, which could potentially be used to weaken KASLR.*  *The fix is designed to mask all address to 0x0 but preserve the message format.* | *Merge the pathes* |
| *linux\_kernel* | *3.10, 3.18* | *CVE-2017-7184* | *When a new xfrm state is created during an XFRM\_MSG\_NEWSA call we validate the user supplied replay\_esn to ensure that the size is valid and to ensure that the replay\_window size is within the allocated buffer. However later it is possible to update this replay\_esn via a XFRM\_MSG\_NEWAE call. There we again validate the size of the supplied buffer matches the existing state and if so inject the contents. We do not at this point check that the replay\_window is within the allocated memory. This leads to out-of-bounds reads and writes triggered by netlink packets. This leads to memory corruption and the potential for privilege escalation.*  *The fix is designed to add additional validation of the replay\_window to prevent the potential memory corruption.* | *https://github.com/torvalds/linux/commit/677e806da4d916052585301785d847c3b3e6186a* |
| *linux\_kernel* | *3.10* | *CVE-2014-9940* | *The regulator\_ena\_gpio\_free function in drivers/regulator/core.c in the Linux kernel before 3.19 allows local users to gain privileges or cause a denial of service (use-after-free) via a crafted application.* | *https://github.com/torvalds/linux/commit/60a2362f769cf549dc466134efe71c8bf9fbaaba* |
| *Android* | *4.4.4, 5.0.2, 5.1.1, 6.0, 6.0.1, 7.0, 7.1.1, 7.1.2* | *CVE-2017-0598* | *The native CursorWindow class, which is used for adapting the ContentProvide.query() result from ashmem, does not check if the values for the offset and size of the field belong to the region of the mapped ashmem area. This could enable the querying application to read values from a different memory location than the data provided by ContentProvider.*  *The fix is designed to verify the size of the ashmem region and to add a default argument bufferSize to check the offset.* | *Merge the pathes* |