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E5885Ls-93a	CONFIDENTIAL
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E5885Ls-93a Firmware Release Notes

V1.0

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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

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1 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..

2 Hardware

2.1 Version Description

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

2.2 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)

2.3 Improvements in the Previous Version

Index	Case ID	Issue Description
NA		

2.4 Known Limitations and Issues

Index	Case ID	Issue Description
NA		

3 Firmware

3.1 Version Description

Firmware Version:	21.191.65.00.00
Baseline information	Balong V7R22 C60B191

3.2 Firmware Specifications

Item	Specifications

3.3 Improvement in the Previous Version

Index	Case ID	Issue Description

3.4 Known Limitations and Issues

Index	Case ID	Issue Description
1		

4 WebUI/HiLink

4.1 Version Description

WebUI/HiLink Version: 21.100.52.00.03

4.2 WebUI/HiLink Specifications

Item	Specifications

4.3 Improvement in the Previous Version

Index	Case ID	Issue Description
1		
2		
3		

4.4 Known Limitations and Issues

Index	Case ID	Issue Description
1		
2		
3		

5 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>

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
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_windown divide-by-zero error and system crash) by triggering a disconnect within a certain tcp_recvmmsg code path.	https://github.com/torvalds/linux/commit/499350a5a6e7512d9ed369ed63a4244b6536f4f8

<i>linux_kernel</i>	<i>3.10, 3.18</i>	<i>CVE-2017-0630</i>	<i>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.</i>	<i>Merge the pathes</i>
<i>linux_kernel</i>	<i>3.10, 3.18</i>	<i>CVE-2017-7184</i>	<i>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_NEWSAE 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</i>	<i>https://github.com/torvalds/linux/commit/677e806da4d916052585301785d847c3b3e6186a</i>

			<p><i>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.</i></p>	
<p><i>linux_kernel</i></p>	<p><i>3.10</i></p>	<p><i>CVE-2014-9940</i></p>	<p><i>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.</i></p>	<p><i>https://github.com/torvalds/linux/commit/60a2362f769cf549dc466134efe71c8bf9fbaaba</i></p>
<p><i>Android</i></p>	<p><i>4.4.4, 5.0.2, 5.1.1, 6.0, 6.0.1, 7.0, 7.1.1, 7.1.2</i></p>	<p><i>CVE-2017-0598</i></p>	<p><i>The native CursorWindow class, which is used for adapting the ContentProvider.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</i></p>	<p><i>Merge the pathes</i></p>



			<i>ContentProvider. The fix is designed to verify the size of the ashmem region and to add a default argument bufferSize to check the offset.</i>	
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