

HUAWEI ALE-L21&L02&L23 Smart Phone V100R001

Product Description

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Change History

Version	SE	Change Description	Date
01	LiuZhijie	Released the first issue.	2015-2-15
02	LiuZhijie	Add the standby time in dual cards and dual standby mode, and change the model of the processor.	2015-3-3
03	LiuZhijie	Change "EMUI 3.0.5" into "EMUI 3.1".	2015-3-4
04	LiuZhijie	Change the dimensions of the phone.	2015-3-19

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1 Product Overview

1.1 Introduction

HUAWEI ALE-L21& L02& L23 are smart phones developed by HUAWEI. They are based on Google Android $^{\text{TM}}$ 5.0 Operating System, which gives you an excellent browsing experience with the Operating System from Google $^{\text{TM}}$, all in a thin touch phone.

- 5.0-inch touch screen supporting auto rotation
- 1.2 GHz octa-core processor
- Android TM 5.0 Operating System
- EMUI 3.1
- Bluetooth 4.0
- Wi-Fi 802.11 b/g/n
- 13 MP main camera with auto focus + 5 MP secondary camera
- LTE Cat 4 technology
- GPS/AGPS
- 1080P HD video capture and playback
- 2200 mAh battery with smart power-saving technology

2 Technical Specifications

2.1 Hardware

Table 2-1 Hardware Specifications

Item	Specifications		
Shape	Bar-type		
LCD	• Size: 5.0 inches		
	Type: IPS display		
	Color: 16 colors		
	• Resolution: 1280x720 (720P)		
Touch-sensitive screen	Multiple touch-sensitive screen		
Color	Black/White		
Dimensions	143.0 mm (L) x70.6 mm (W) x7.7 mm (T)		
Weight	About 131 g (including the battery)		
Frequency band ALE-L21:			
	• GSM (GSM 850): 824–849 MHz (UL), 869–894 MHz (DL)		
	• EGSM (GSM 900): 880–915 MHz (UL), 925–960 MHz (DL)		
	• DCS (GSM 1800): 1710–1785 MHz (UL), 1805–1880 MHz (DL)		
	• PCS (GSM 1900): 1850–1910 MHz (UL), 1930–1990 MHz (DL)		
	• WCDMA Band 1: 1920–1980 MHz (UL), 2110–2170 MHz (DL)		
	• WCDMA Band 2: 1850–1910 MHz (UL), 1930–1990 MHz (DL)		
	• WCDMA Band 8: 880–915 MHz (UL), 925–960 MHz (DL)		
	• LTE FDD Band 3: 1710–1785 MHz (UL), 1805–1880 MHz (DL)		
	• LTE FDD Band 7: 2500–2570 MHz (UL), 2620–2690 MHz (DL)		
	• LTE FDD Band 8: 880–915 MHz (UL), 925–960 MHz (DL)		
	• LTE FDD Band 20: 832–862 MHz (UL), 791–821 MHz (DL)		

Item	Specifications		
	ALE-L02:		
	• GSM (GSM 850): 824–849 MHz (UL), 869–894 MHz (DL)		
	• EGSM (GSM 900): 880–915 MHz (UL), 925–960 MHz (DL)		
	• DCS (GSM 1800): 1710–1785 MHz (UL), 1805–1880 MHz (DL)		
	• PCS (GSM 1900): 1850–1910 MHz (UL), 1930–1990 MHz (DL)		
	• WCDMA Band 1: 1920–1980 MHz (UL), 2110–2170 MHz (DL)		
	• WCDMA Band 5: 824–849 MHz (UL), 869–894 MHz (DL)		
	• WCDMA Band 6: 830–840 MHz (UL), 875–885 MHz (DL)		
	• WCDMA Band 8: 880–915 MHz (UL), 925–960 MHz (DL)		
	• WCDMA Band 19: 830–845 MHz (UL), 875–890 MHz (DL)		
	• LTE FDD Band 1: 1920–1980 MHz (UL), 2110–2170 MHz (DL)		
	• LTE FDD Band 3: 1710–1785 MHz (UL), 1805–1880 MHz (DL)		
	• LTE FDD Band 5: 824–849 MHz (UL), 869–894MHz (DL)		
	• LTE FDD Band 7: 2500–2570 MHz (UL), 2620–2690 MHz (DL)		
	• LTE FDD Band 8: 880–915 MHz (UL), 925–960 MHz (DL)		
	• LTE FDD Band 19: 830–845 MHz (UL), 875–890 MHz (DL)		
	• LTE FDD Band 28: 703–748 MHz (UL), 758–803 MHz (DL)		
	• TD-LTE Band 40: 2300–2400 MHz		
	ALE-L23:		
	• GSM (GSM 850): 824–849 MHz (UL), 869–894 MHz (DL)		
	• EGSM (GSM 900): 880–915 MHz (UL), 925–960 MHz (DL)		
• DCS (GSM 1800): 1710–1785 MHz (UL), 1805–1880 MHz (DL)			
• PCS (GSM 1900): 1850–1910 MHz (UL), 1930–1990 MHz (DL)			
• WCDMA Band 1: 1920–1980 MHz (UL), 2110–2170 MHz (DL)			
	• WCDMA Band 2: 1850–1910 MHz (UL), 1930–1990 MHz (DL)		
	• WCDMA Band 5: 824–849 MHz (UL), 869–894 MHz (DL)		
	• WCDMA Band 4: 1710–1755 MHz (UL), 2110–2155MHz (DL)		
• LTE FDD Band 2: 1850–1910 MHz (UL), 1930–1990 MHz (DL)			
• LTE FDD Band 4: 1710–1755 MHz (UL), 2110–2155 MHz (DL)			
	• LTE FDD Band 7: 2500–2570 MHz (UL), 2620–2690 MHz (DL)		
	• LTE FDD Band 28: 703–748 MHz (UL), 758–803 MHz (DL)		
Maximum	ALE-L21:		
transmit power	• WCDMA: +24 dBm (Power Class 3)		
	• GSM/EGSM (GSM/GPRS 850/900): +33 dBm (Power Class 4)		
	• DCS/PCS (GSM/GPRS 1800/1900): +30 dBm (Power Class 1)		
	• LTE FDD Band 3/Band 7/Band 8/Band 20: 21–25 dBm (Power Class 3)		
	ALE-L02:		
	• WCDMA: +24 dBm (Power Class 3)		
	• GSM/EGSM (GSM/GPRS 850/900): +33 dBm (Power Class 4)		
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Item	Specifications		
	• DCS/PCS (GSM/GPRS 1800/1900): +30 dBm (Power Class 1)		
	• LTE FDD Band 1/ Band 5: 21–25 dBm (Power Class 3)		
	• LTE FDD Band 3/Band 7/Band 8/Band19: 21–25 dBm (Power Class 3)		
	• LTE FDD Band 28: 21–25 dBm (Power Class 3)		
	• TD-LTE Band 40: 21–25 dBm (Power Class 3)		
	ALE-L23:		
	• WCDMA: +24 dBm (Power Class 3)		
	• GSM/EGSM (GSM/GPRS 850/900): +33 dBm (Power Class 4)		
	• DCS/PCS (GSM/GPRS 1800/1900): +30 dBm (Power Class 1)		
	• LTE FDD Band 4: 21–25 dBm (Power Class 3)		
	• LTE FDD Band 2/Band 7: 21–25 dBm (Power Class 3)		
	• LTE FDD Band 28: 21–25 dBm (Power Class 3)		
Static sensitivity:	ALE-L21:		
	• GSM /EGSM/DCS/PCS (GSM 850/900/1800/1900): better than -102 dBm/200 kHz		
	• WCDMA Band 1: better than -106.7 dBm/3.84 MHz		
	• WCDMA Band 2: better than -104.7 dBm/3.84 MHz		
	• WCDMA Band 8: better than -103.7 dBm/3.84 MHz		
	• LTE FDD Band 3: better than -101.7 dBm/1.4 MHz		
	• LTE FDD Band 7: better than –98 dBm/5 MHz		
	• LTE FDD Band 8: better than -102.2 dBm/1.4 MHz		
	• LTE FDD Band 20: better than –97 dBm/5 MHz		
	ALE-L02:		
	• GSM /EGSM/DCS/PCS (GSM 850/900/1800/1900): better than -102 dBm/200 kHz		
	• WCDMA Band 1: better than -106.7 dBm/3.84 MHz		
	• WCDMA Band 5: better than -104.7 dBm/3.84 MHz		
	• WCDMA Band 6: better than -106.7 dBm/3.84 MHz		
	• WCDMA Band 8: better than -103.7 dBm/3.84 MHz		
	• WCDMA Band 19: better than –106.7 dBm/3.84 MHz		
	• LTE FDD Band 1: better than –100 dBm/5 MHz		
	• LTE FDD Band 3: better than –101.7 dBm/1.4 MHz		
	• LTE FDD Band 5: better than -103.2 dBm/1.4 MHz		
	• LTE FDD Band 7: better than –98 dBm/5 MHz		
	• LTE FDD Band 8: better than –102.2 dBm/1.4 MHz		
	• LTE FDD Band 19: better than –103.2 dBm/1.4 MHz		
	• LTE FDD Band 28: better than –98 dBm/1.4 MHz		
	• TD-LTE Band 40: better than -100 dBm/5 MHz		

Item	Specifications		
	 ALE-L23: GSM /EGSM/DCS/PCS (GSM 850/900/1800/1900): better than -102 dBm/200 kHz WCDMA Band 1: better than -106.7 dBm/3.84 MHz WCDMA Band 2: better than -104.7 dBm/3.84 MHz WCDMA Band 5: better than -104.7 dBm/3.84 MHz WCDMA Band 4: better than -106.7 dBm/3.84 MHz LTE FDD Band 2: better than -102.7 dBm/1.4 MHz LTE FDD Band 4: better than -104.7 dBm/1.4 MHz LTE FDD Band 7: better than -98 dBm/5 MHz LTE FDD Band 28: better than -98 dBm/1.4 MHz LTE FDD Band 28: better than -98 dBm/1.4 MHz 		
Network rate	 WCDMA: 384 Kbit/s (UL), 384 Kbit/s (DL) HSPA Cat 6: 5.76 Mbit/s (UL), 3.65 Mbit/s (DL) HSPA Cat 24: 5.76 Mbit/s (UL), 42 Mbit/s (DL) EDGE Class 12: 236.8 Kbit/s (UL), 236.8 Kbit/s (DL) GPRS: 40 Kbit/s (UL), 60 Kbit/s (DL) LTE Cat4: 50.0 Mbit/s (UL), 150 Mbit/s (DL) 		
SIM card interface	Micro SIM card Nano SIM card		
External interface	Standard micro USB, 3.5 mm headset		
Processor	Kirin 620, 1.2 G 8-core		
Memory	 ROM: 16 GB RAM: 2 GB ROM User Available: about 10 GB 		
External memory support	microSD card (up to 32GB)		
Device control	 Illuminated capacitive soft keys with haptic feedback Physical Power key Physical volume key 		
GPS	GPS/AGPS/Glonass		
Temperature	 Operating temperature: 0°C-35°C Warehouse temperature: -20°C-+70 °C 		
Battery	ALE-L21: • Capability: 2200 mAh NOTE Standby time and talking time depend on the user operation and network condition. • Standby time in dual cards and dual standby mode: up to 290 hours		

Item	Specifications		
	 WCDMA network: up to 500 hours standby time; up to 780 mins talking time GSM network: up to 600 hours standby time; up to 1200 mins talking time FDD LTE network: up to 450 hours standby time Charging Time: 3 hours from supplied charger 		
	ALE-L02: Capability: 2200 mAh NOTE Standby time and talking time depend on the user operation and network condition. WCDMA network: up to 500 hours standby time; up to 780 mins talking time GSM network: up to 600 hours standby time; up to 1200 mins talking time FDD LTE network: up to 450 hours standby time TD-LTE network: up to 430 hours standby time Charging Time: 3 hours from supplied charger		
	 ALE-L23: Capability: 2200 mAh NOTE Standby time and talking time depend on the user operation and network condition. Standby time in dual cards and dual standby mode: up to 290 hours WCDMA network: up to 500 hours standby time; up to 780 mins talking time GSM network: up to 600 hours standby time; up to 1200 mins talking time FDD LTE network: up to 450 hours standby time Charging Time: 3 hours from supplied charger 		
Relative humidity	Working: 5%–95%		
Camera	 Main camera: 13 MP AF camera Secondary camera: 5 MP FF camera 		
Bluetooth	 Bluetooth 4.0 + EDR A2DP stereo bluetooth BLE(Bluetooth Low Energy) 		
Wi-Fi	802.11 b/g/n, 2.4G		
USB	USB2.0 high speed		
Power supply	 Input: 100–240V, 50/60Hz, 0.2A Output: 5V, 1A 		
Certification	ALE-L21: CE, FCC, GCF, BQB, Wi-Fi, RoHS, REACH, NFC ALE-L02: CE, BQB, Wi-Fi, RCM, RoHS		

Item	Specifications
	ALE-L23: FCC, BQB, Wi-Fi, RoHS
Sensor	 Accelerometer Proximity sensor Ambient light sensor Compass
Status indicator	Support
Flash	Support

2.2 Software

 Table 2-2 Software Specifications

Item	Specifications	
Operating system	Android™ 5.0 (Lollipop)	
Input method	HUAWEI IME, Swype	
Home screen	HUAWEI EMUI 3.1	
Browser	Android native browser	
Voice codec	WCDMA: AMR-NB/AMR-WB GSM/GPRS: FR/EFR/HR/AMR-NB/AMR-WB	
Messaging	• SMS • MMS	
Email	POP3/IMAP/Exchange/SMTP	
Multi-media	Codec format: • Audio codec: MP3, MIDI, AMR-NB, AAC, AAC+, eAAC+, PCM, • Video codec: H.263, H.264, MPEG-4 • Image codec: PNG, GIF (Static only), JPEG, BMP, WEBP, WBMP	
	File format: • Audio file format: *.mp3, *.mid, *.amr, *.3gp, *.mp4, *.m4a, *.aac, *.wav,*.ogg, *.flac, *.mkv • Video file format: *.3gp, *.mp4, *.webm, *.mkv • Image file format: *.png, *.gif (Static only), *.jpg, *.bmp, *.webp, *.wbmp	

Item	Specifications		
Streaming media	Codec format: • Audio codec: AMR-NB, AAC, AAC+, eAAC+ • Video codec: H.263, H.264, MPEG-4		
	File format: *.mp4, *.3gp		
Software update	HOTA online update Update using a microSD card		
USB function	 Mass storage USB tethering Charging		
Camera & Video resolution	13 MP main camera: • Photo: up to 4208x3120 • Video: up to 1920x1080 5 MP secondary camera: • Photo: up to 2592x1944 • Video: up to 1280x720		
	 Support 720P/1080P video playback Main camera: Support 1080P video recording Secondary camera: Support 720P video recording 		
Photo and video	Capture file format: *.jpgRecording file format: *.mp4		
Shooting function	Quick shooting, Panoramic shooting		
Google mobile suite	Availability of Google applications, services, and features may vary according to your country or carrier. • Google Mail • Google Search & Search by voice • Hangouts • Google Maps • Google Calendar • Google News & Weather • YouTube • Play Store		
Feature applications	Backup, Phone Manager, File manager, Weather, Huawei music, Quick shooting		

3 Packing List

Table 3-1 Packing List

Number	Item	Quantity	Remark
1	Handset (including the battery)	1	Standard
2	Charger	1	Standard
3	USB cable	1	Standard
4	3.5mm headset	1	Standard
5	Quick Start Guide	1	Standard