TECHNICAL MANUAL CELL PHONE OB-588 ALTRON



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1. TECHNICAL CHARACTERISTICS OF THE OB-588 CELLULAR.

The cellular altron OB-588 has the following characteristics:

Processor			
Processor architecture CortexTM A7 quad-core			
Processor family	Spreadtrum		
Processor frequency	up to1.3Ghz		
Processor model	SC7731E		
Number of cores	Quad Core		
Memory			
Internal memory	1GB		
Storage	16GB		
Screen			
Diagonal screen	5.5inch		
Touch screen	v		
Aspect ratio	18: 9		
Screen resolution	480 x 960 pixels		
LED backlight	v		
Touch technology	Multi-touch		
Touch screen type	Capacitive		
Audio			
Built-in speakers	v		
Built-in microphone	v		
Ports and interfaces			
Headphones	3.5 mm		
Micro-USB 2.0 ports quantity	one		
Headphone output	v		
Weight and measurements			
High	148.9 mm		
Width	71.3 mm		
Weight	160 g		

Depth	9.3 mm		
Energy			
Amperage adapter	2,000 mA		
Adapter voltage	5 V		
Connectivity			
2 G bands	✓		
3 G bands	✓		
Supported 2G bands	850, 1900 MHZ		
Supported 3G bands	850, 1900 MHZ		
Supported 4G bands	x		
Bluetooth	v		
Dual SIM support	v		
Wi-Fi standard	Wi-Fi (802.11b / g / n)		
2G standards	GSM		
3G standards	WCDMA		
4G standards Bluetooth version	× 4.0		
Storage Media			
Internal storage	16GB GB		
Card reader	✓		
Compatible memory cards	MicroSD (TransFlash)		
Storage unit	Flash		
Camera			
Front camera	v		
Rear camera	✓		
flash	v		
Video Recording	✓		
Front camera resolution (numeric)	2.0 MP		
Rear camera resolution (numeric)	8.0 MP		
Flash type	LED		
Package content			

AC adapter included	V			
Includes keyboard	×			
User manual	v			
Messenger Service				
E-mail	v			
Drums				
Battery capacity	2000 mAh			
Battery Technology	Lithium			
Battery voltage	3.7 V DC			
Characteristics				
Speaker	V			
Caller ID	✓			
voice call	✓			
Video call	v			
Design				
Product color	Black, Blue, Red			
Form factor	Board			
Type of device5.5inch 18: 9 Ration Smartphone				
Performance				
Assisted GPS (A-GPS) function	v			
software				
Platform	Android			
Installed operating system	Android 11 (Go edition)			
Supported multimedia formats.				
Supported audio formats	APE, FLAC, MP3, WAV, WMA			
Supported image formats	BMP, GIF, JPEG XR, PNG, TIF			
Supported video formats	AVI, H.264, MKV, MPEG1, MPEG2, RM, RMVB			

2. MODEL BRAND AND EQUIPMENT DESCRIPTION:

The OB-588 cell phone is imported under the Trademark registered in INDECOPI ALTRON.

Main features:

- Equipment model: OB-588
- Brand Name: ALTRON
- Trade Name: OB-588
- Hardware Version: J517C_31EFMB_D3V1.0
- Software Version: Altron_OB588_V1.0_20210305
- Device Category: Portable.
- Antenna type: Internal antenna.
- Manufacturer: OBO ELECTRONICS GROUP LIMITED

3. EQUIPMENT MANUFACTURER:

The ALTRON OB-588 cell phone has as a country of origin CHINA and has been manufactured and designed in the company

"OBO ELECTRONICS GROUP LIMITED"

Located in:

Zhengqilong Building, Gushu 108, Xi'xiang, Bao'an district, shenzhen, China.

Manufacturer website: http://www.oboeg.com/

Contact email: oboeg@oboeg.com.

4. OB-588 CELL PHONE OPERATION BANDS

The Altron OB-588 cell phone is designed to operate in the following cell phone bands:

2G under the GSM Standard, with the following frequency ranges:

- GSM 850
- PCS 1900

3G under the WCDMA (UMTS) standard, Universal Mobile Telecommunications System with the following Frequency ranges:

- UMTS Band II
- UMTS Band V

WIFI 2.4G wireless communication standard:

- 802.11b
- 802.11g
- 802.11n (20)

Communication standard Bluetooth_V4.1, modulation mode:

- GFSK
- π / 4-DQPSK
- 8-DPSK

5. ALTRON OB-588 CELL PHONE OPERATING FREQUENCY RANGE

The operating frequency range of the ALTRON OB-588 cell phone is detailed in the following table:

BAND	TX TRANSMISSION FREQUENCY RANGE	RX RECEPTION FREQUENCY RANGE
GSM 850 MHZ BAND	820 MHZ - 850 MHz	869 MHZ - 894 MHz
BAND PCS 1900 MHZ	1850 MHZ - 1910 MHz	1930 MHZ - 1990 MHz
WCDMA FDD Band II	1850 MHZ - 1910 MHz	1930 MHZ - 1990 MHz
WCDMA FDD Band V	824MHZ - 849MHz	869 MHZ - 894 MHz

BLUETOOTH	FREQUENCY RANGE OF OPERATION
BLUETOOTH VERSION 4.1	2402MHZ ~ 2480MHz

2.4G WIFI	FREQUENCY RANGE OF OPERATION
802.11b, 802.11g, 802.11n (20)	2412MHZ ~ 2462MHz

6. TYPE OF MODULATION BY BAND OF THE CELL PHONE OB-588.

The OB-588 cell phone uses the following types of modulation in each of its operating bands:

BAND	MODULATION
2G GSM 850-1900MHZ	GMSK
WCDMA UMTS BAND II - BAND V	QPSK
BLUETOOTH V4.1	GFSK, π / 4-DQPSK, 8-DPSK

7. MAXIMUM TRANSMISSION POWERS PER BAND

The transmission powers per band of the OB-588 cell phone, as in all mobile terminals, can vary depending on the distance to a base station.

The maximum transmission values per band of the ob-588 cell phone are shown in the following table:

MAXIMUM TRANSMISSION POWER				
	dBm	Watts		
GSM 850 MHZ BAND	31.89dBm	1.54525444		
BAND PCS 1900 MHZ	28.14dBm	0.651628394		
UMTS WCDMA FDD Band II	22.34dBm	0.171395731		
UMTS WCDMA FDD Band V	22.71dBm	0.186637969		
Bluetooth	7.118 dBm	0.005149914		
WIFI 802.11b	13.35dBm	0.021627185		
WIFI 802.11g	10.82dBm	0.012078138		
WIFI 802.11n (20)	10.00dBm	0.01		

Source: Sar report Ob-588.

8. ANTENNAS GAIN BY FREQUENCY RANGE.

ANTENNA GAIN	
	dBi
GSM 850 MHZ BAND	-0.3dBi
BAND PCS 1900 MHZ	0.5 dBi
UMTS WCDMA FDD Band II	0.5dBi
UMTS WCDMA FDD Band V	-0.3dBi
Bluetooth Ver 4.1	1.2dBi
WIFI 802.11bgn	1.5dBi

9. WIRELESS COMMUNICATION STANDARDS.

The Altron OB-588 cell phone has the following wireless communication standards

• Bluetooth version 4.1

Short-range radio technology that enables communication and data synchronization between personal computers, PDAs, mobile phones, and peripheral devices.

• Wifi 802.11 b / g / n.

10. SPECIFIC ABSORPTION RATE SAR.

Specific Absorption Rate (SAR) is the coefficient or measure of the amount of RF energy that is absorbed by tissues in the human body when using equipment that emits radio frequencies, for example, a mobile phone, in watts per kilogram (W / kg), that is, the amount of watts of energy absorbed by the human body for each kilogram of body mass, specific for a given source of electromagnetic energy.

It measures the power of radiation that penetrates the human body and depends on the transmission power of the equipment, the antenna it uses, etc.

SAR is the dosimetric measurement used to establish limits on the emission of radiation by non-ionizing electromagnetic fields.

The ALTRON OB-588 CELLULAR was designed in accordance with the radio frequency exposure requirements established by the Federal Communications Commission (United States).

The specific absorption rate (SAR) limit adopted by the United States is 1.6 W / kg on average per gram of tissue. The maximum SAR value for this device reported to the FCC meets this limit.

The following table is a detail of the different SAR values obtained in the AGC laboratory located at:

2 / F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, HangCheng Street, Baoan District, Shenzhen, Guangdong, China.

Tel: + 86-755 2523 4088, E-mail: agc@agc-cert.com.

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Frequency Band	Highest Reported 1g-SAR(W/Kg)		SAR Test Limit
Frequency Band	Head	Body-worn(with 10mm separation)	(W/Kg)
GSM 850	0.047	0.122	
PCS 1900	0.096	0.188	
UMTS Band II	0.110	0.216	
UMTS Band V	0.065	0.103	1.6
WIFI 2.4G	0.170	0.106	
Simultaneous Reported SAR	0.325		
SAR Test Result	PASS		

1. SUMMARY OF MAXIMUM SAR VALUE

11.TAC NUMBER

The TAC is an 8-digit number that identifies a particular model of mobile phone whether it is GSM, UMTS or another wireless network that supports the IMEI code.

The Altron OB-588 cell phone has a valid TAC issued by the GSMA ASOCIATION.

TAC: 35612556

TAC Holder: METREON SAC

Brand Name: ALTRON

Model Name: OB-588

Marketing Name: OB-588

Quantity of SIM Slots on the device: 2

12. CELL-BROADCAST SUPPORT FOR OB-588.

The alert messaging service also called CELL-BROADCAST is duly enabled on the OB-588 cell phone with the various channels requested by the Ministry of Transport and Communications of Peru MTC.

UTILIZATION	CHANNELS	
UTILIZATION	Main configuration	
Local Alert	4370	
Local Alert (other language)	4383	
Information	4382	
Test	4380	
Exercise / Drill	4381	
Reserved	4396, 4397, 4398, AND	
	4399	

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Channel List		
💓 President alert		50
🐑 President alert		919
🐑 President alert		519
🐑 President alert		4370
😥 President alert		4383
🐑 President alert		4382
🐑 President alert		4380
😥 President alert		4381
😥 President alert		4396
(🐑 President alert		4397
🐑 President alert		4398
💮 President alert		4399



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