## **SERVICE MANUAL**

#### **CUBOT GT90**

#### **CONTENTS**



- 1. GENERAL SPECIFICATION
- 2. GSM TX POWER CLASS
- 3. REPORTED SAR
- 4. MAIN FUNCTION

Technical Parameters	GSM 850	EGSM 900	DCS 1800	PCS 1900	WCDMA 2100	WCDMA 850
Frequency Band [Mhz]	824 ~ 849	880 ~ 915	1710 ~ 1785	1850 ~ 1910	1922 ~ 1977	824 ~ 849
Uplink/Downlink	869 ~ 894	925 ~ 960	1805 ~ 1880	1930 ~ 1990	2112 ~ 2167	869 ~ 894
ARFCN Range	128 ~ 251	0 ~ 124 & 975 ~ 1023	512 ~ 885	512 ~ 810	UL: 9612 ~ 9888	UL: 4132 ~ 4233
Anion hange					DL: 10562 ~ 10838	DL: 4357 ~ 4458
Tx/Rx Spacing	45 Mhz	45 Mhz	95 Mhz	80 Mhz	190 Mhz	45 Mhz
Mod. Bit Rate/Bit	270.833 kbps	270.833 kbps	270.833 kbps	270.833 kbps	3.84 Mcps	
Period	3.692 us	3.692 us	3.692 us	3.692 us		3.84 Mcps
Time Slot	576.9 us	576.9 us	576.9 us	576.9 us	FrameLength: 10ms	FrameLength: 10ms
Period/Frame Period	4.615 ms	4.615 ms	4.615 ms	4.615 ms	Slotlength: 0.667ms	Slotlength: 0.667ms
Modulation	0.3 GMSK	0.3 GMSK	0.3 GMSK	0.3 GMSK	QPSKHQPSK	QPSKHQPSK
MS Power	33 dBm ~ 5 dBm	33 dBm ~ 5 dBm	33 dBm ~ 5 dBm	33 dBm ~ 5 dBm	24 dBm ~ -50 dBm	24 dBm ~ -50 dBm
Power Class	5 pcl ~ 19 pcl	5 pcl ~19 pcl	0 pcl ~ 15 pcl	0 pcl ~ 15 pcl	3(max+ 24dBm)	3(max+ 24dBm)
Sensitivity	- 102 dBm	- 102 dBm	- 100 dBm	- 100 dBm	- 106.7 dBm	- 106.7 dBm
TDMA Mux	8	8	8	8	8	8
Cell Radius	35 Km	35 Km	2 Km	2 Km	2 Km	2 Km

Tx Power Control	GSM 850	Tx Power Control	EGSM 900	Tx Power Control	DCS 1800	Tx Power Control	PCS 1900
5	33 ± 2 dBm	5	33 ± 2 dBm	0	30 ± 3 dBm	0	30 ± 3 dBm
6	31± 2 dBm	6	31 ± 2 dBm	1	28 ± 3 dBm	1	28 ± 3 dBm
7	29 ± 2 dBm	7	29 ± 2 dBm	2	26 ± 3 dBm	2	26 ± 3 dBm
8	27 ± 2 dBm	8	27 ± 2 dBm	3	24 ± 3 dBm	3	24 ± 3 dBm
9	25 ± 2 dBm	9	25 ± 2 dBm	4	22 ± 3 dBm	4	22 ± 3 dBm
10	23 ± 2 dBm	10	23 ± 2 dBm	5	20 ± 3 dBm	5	20 ± 3 dBm
11	21 ± 2 dBm	11	21 ± 2 dBm	6	18 ± 3 dBm	6	18 ± 3 dBm
12	19 ± 2 dBm	12	19 ± 2 dBm	7	16 ± 3 dBm	7	16 ± 3 dBm
13	17 ± 2 dBm	13	17 ± 2 dBm	8	14 ± 3 dBm	8	14 ± 3 dBm
14	15 ± 2 dBm	14	15 ± 2 dBm	9	12 ± 4 dBm	9	12 ± 4 dBm
15	13 ± 2 dBm	15	13 ± 2 dBm	10	10 ± 4 dBm	10	10 ± 4 dBm
16	11 ± 3 dBm	16	11 ± 3 dBm	11	8 ± 4 dBm	11	8 ± 4 dBm
17	9 ± 3 dBm	17	9 ± 3 dBm	12	6 ± 4 dBm	12	6 ± 4 dBm
18	7 ± 3 dBm	18	7 ± 3 dBm	13	4 ± 4 dBm	13	4 ± 4 dBm
19	5 ± 3 dBm	19	5 ± 3 dBm	14	2 ± 5 dBm	14	2 ± 5 dBm
				15	0 ± 5 dBm	15	0 ± 5 dBm

WCDMA/GSM/EDGE	WLAN		
The highest reported SAR values are:	The highest reported SAR values are:		
• Head: 0.36 W/kg	• Head: 0.19 W/kg		
Body-worn accessory: 0.78 W/kg	Body-worn accessory: 0.12 W/kg		
Product Specific Use: 0.90 W/kg	Product Specific Use: 0.11 W/kg		

#### **Main Function**

Processor Mediatek Strong Dual-Core Cortex-A7 MT6572W (1.3 GHz)	
178° wide viewing angle display	
4.0 Inch WVGA (480X800)	
4GB ROM + 512MB RAM	
5 points touch	

#### Cameras:

- 5 Mega pixels Auto-Focus Rear Camera with Flashlight
- 2 Mega pixels Front Camera (able to video chat)

## **SERVICE MANUAL**

#### **CUBOT P9**



#### **CONTENTS**

- 1. GENERAL SPECIFICATION
- 2. GSM TX POWER CLASS
- 3. REPORTED SAR
- 4. MAIN FUNCTION

Technical Parameters	GSM 850	EGSM 900	DCS 1800	PCS 1900	WCDMA 2100	WCDMA 850
Frequency Band [Mhz]	824 ~ 849	880 ~ 915	1710 ~ 1785	1850 ~ 1910	1922 ~ 1977	824 ~ 849
Uplink/Downlink	869 ~ 894	925 ~ 960	1805 ~ 1880	1930 ~ 1990	2112 ~ 2167	869 ~ 894
ARFCN Range	128 ~ 251	0 ~ 124 & 975 ~ 1023	512 ~ 885	512 ~ 810	UL: 9612 ~ 9888	UL: 4132 ~ 4233
Anion hange					DL: 10562 ~ 10838	DL: 4357 ~ 4458
Tx/Rx Spacing	45 Mhz	45 Mhz	95 Mhz	80 Mhz	190 Mhz	45 Mhz
Mod. Bit Rate/Bit	270.833 kbps	270.833 kbps	270.833 kbps	270.833 kbps	3.84 Mcps	
Period	3.692 us	3.692 us	3.692 us	3.692 us		3.84 Mcps
Time Slot	576.9 us	576.9 us	576.9 us	576.9 us	FrameLength: 10ms	FrameLength: 10ms
Period/Frame Period	4.615 ms	4.615 ms	4.615 ms	4.615 ms	Slotlength: 0.667ms	Slotlength: 0.667ms
Modulation	0.3 GMSK	0.3 GMSK	0.3 GMSK	0.3 GMSK	QPSKHQPSK	QPSKHQPSK
MS Power	33 dBm ~ 5 dBm	33 dBm ~ 5 dBm	33 dBm ~ 5 dBm	33 dBm ~ 5 dBm	24 dBm ~ -50 dBm	24 dBm ~ -50 dBm
Power Class	5 pcl ~ 19 pcl	5 pcl ~19 pcl	0 pcl ~ 15 pcl	0 pcl ~ 15 pcl	3(max+ 24dBm)	3(max+ 24dBm)
Sensitivity	- 102 dBm	- 102 dBm	- 100 dBm	- 100 dBm	- 106.7 dBm	- 106.7 dBm
TDMA Mux	8	8	8	8	8	8
Cell Radius	35 Km	35 Km	2 Km	2 Km	2 Km	2 Km

Tx Power Control	GSM 850	Tx Power Control	EGSM 900	Tx Power Control	DCS 1800	Tx Power Control	PCS 1900
5	33 ± 2 dBm	5	33 ± 2 dBm	0	30 ± 3 dBm	0	30 ± 3 dBm
6	31± 2 dBm	6	31 ± 2 dBm	1	28 ± 3 dBm	1	28 ± 3 dBm
7	29 ± 2 dBm	7	29 ± 2 dBm	2	26 ± 3 dBm	2	26 ± 3 dBm
8	27 ± 2 dBm	8	27 ± 2 dBm	3	24 ± 3 dBm	3	24 ± 3 dBm
9	25 ± 2 dBm	9	25 ± 2 dBm	4	22 ± 3 dBm	4	22 ± 3 dBm
10	23 ± 2 dBm	10	23 ± 2 dBm	5	20 ± 3 dBm	5	20 ± 3 dBm
11	21 ± 2 dBm	11	21 ± 2 dBm	6	18 ± 3 dBm	6	18 ± 3 dBm
12	19 ± 2 dBm	12	19 ± 2 dBm	7	16 ± 3 dBm	7	16 ± 3 dBm
13	17 ± 2 dBm	13	17 ± 2 dBm	8	14 ± 3 dBm	8	14 ± 3 dBm
14	15 ± 2 dBm	14	15 ± 2 dBm	9	12 ± 4 dBm	9	12 ± 4 dBm
15	13 ± 2 dBm	15	13 ± 2 dBm	10	10 ± 4 dBm	10	10 ± 4 dBm
16	11 ± 3 dBm	16	11 ± 3 dBm	11	8 ± 4 dBm	11	8 ± 4 dBm
17	9 ± 3 dBm	17	9 ± 3 dBm	12	6 ± 4 dBm	12	6 ± 4 dBm
18	7 ± 3 dBm	18	7 ± 3 dBm	13	4 ± 4 dBm	13	4 ± 4 dBm
19	5 ± 3 dBm	19	5 ± 3 dBm	14	2 ± 5 dBm	14	2 ± 5 dBm
				15	0 ± 5 dBm	15	0 ± 5 dBm

WCDMA/GSM/EDGE	WLAN
The highest reported SAR values are:	The highest reported SAR values are:
• Head: 0.36 W/kg	• Head: 0.19 W/kg
Body-worn accessory: 0.78 W/kg	Body-worn accessory: 0.12 W/kg
Product Specific Use: 0.90 W/kg	Product Specific Use: 0.11 W/kg

#### **Main Function**

Processor Mediatek Strong Dual-Core Cortex-A7 MT6572W (1.3 GHz)	
Fashion Desing and High Quality Voice Export	
5 inch Large Screen	
512MB RAM + 4GB ROM	
Newest Android 4.2.2 OS	

#### Cameras:

- 8 Mega pixels Auto-Focus Rear Camera with Flashlight
- 2 Mega pixels Front Camera (able to video chat)

## **SERVICE MANUAL**

#### **CUBOT GT99**



#### **CONTENTS**

- 1. GENERAL SPECIFICATION
- 2. GSM TX POWER CLASS
- 3. REPORTED SAR
- 4. MAIN FUNCTION

Technical Parameters	GSM 850	EGSM 900	DCS 1800	PCS 1900	WCDMA 2100	WCDMA 850
Frequency Band [Mhz]	824 ~ 849	880 ~ 915	1710 ~ 1785	1850 ~ 1910	1922 ~ 1977	824 ~ 849
Uplink/Downlink	869 ~ 894	925 ~ 960	1805 ~ 1880	1930 ~ 1990	2112 ~ 2167	869 ~ 894
ARFCN Range	128 ~ 251	0 ~ 124 & 975 ~ 1023	512 ~ 885	512 ~ 810	UL: 9612 ~ 9888	UL: 4132 ~ 4233
Anion hange					DL: 10562 ~ 10838	DL: 4357 ~ 4458
Tx/Rx Spacing	45 Mhz	45 Mhz	95 Mhz	80 Mhz	190 Mhz	45 Mhz
Mod. Bit Rate/Bit	270.833 kbps	270.833 kbps	270.833 kbps	270.833 kbps	3.84 Mcps	
Period	3.692 us	3.692 us	3.692 us	3.692 us		3.84 Mcps
Time Slot	576.9 us	576.9 us	576.9 us	576.9 us	FrameLength: 10ms	FrameLength: 10ms
Period/Frame Period	4.615 ms	4.615 ms	4.615 ms	4.615 ms	Slotlength: 0.667ms	Slotlength: 0.667ms
Modulation	0.3 GMSK	0.3 GMSK	0.3 GMSK	0.3 GMSK	QPSKHQPSK	QPSKHQPSK
MS Power	33 dBm ~ 5 dBm	33 dBm ~ 5 dBm	33 dBm ~ 5 dBm	33 dBm ~ 5 dBm	24 dBm ~ -50 dBm	24 dBm ~ -50 dBm
Power Class	5 pcl ~ 19 pcl	5 pcl ~19 pcl	0 pcl ~ 15 pcl	0 pcl ~ 15 pcl	3(max+ 24dBm)	3(max+ 24dBm)
Sensitivity	- 102 dBm	- 102 dBm	- 100 dBm	- 100 dBm	- 106.7 dBm	- 106.7 dBm
TDMA Mux	8	8	8	8	8	8
Cell Radius	35 Km	35 Km	2 Km	2 Km	2 Km	2 Km

Tx Power Control	GSM 850	Tx Power Control	EGSM 900	Tx Power Control	DCS 1800	Tx Power Control	PCS 1900
5	33 ± 2 dBm	5	33 ± 2 dBm	0	30 ± 3 dBm	0	30 ± 3 dBm
6	31± 2 dBm	6	31 ± 2 dBm	1	28 ± 3 dBm	1	28 ± 3 dBm
7	29 ± 2 dBm	7	29 ± 2 dBm	2	26 ± 3 dBm	2	26 ± 3 dBm
8	27 ± 2 dBm	8	27 ± 2 dBm	3	24 ± 3 dBm	3	24 ± 3 dBm
9	25 ± 2 dBm	9	25 ± 2 dBm	4	22 ± 3 dBm	4	22 ± 3 dBm
10	23 ± 2 dBm	10	23 ± 2 dBm	5	20 ± 3 dBm	5	20 ± 3 dBm
11	21 ± 2 dBm	11	21 ± 2 dBm	6	18 ± 3 dBm	6	18 ± 3 dBm
12	19 ± 2 dBm	12	19 ± 2 dBm	7	16 ± 3 dBm	7	16 ± 3 dBm
13	17 ± 2 dBm	13	17 ± 2 dBm	8	14 ± 3 dBm	8	14 ± 3 dBm
14	15 ± 2 dBm	14	15 ± 2 dBm	9	12 ± 4 dBm	9	12 ± 4 dBm
15	13 ± 2 dBm	15	13 ± 2 dBm	10	10 ± 4 dBm	10	10 ± 4 dBm
16	11 ± 3 dBm	16	11 ± 3 dBm	11	8 ± 4 dBm	11	8 ± 4 dBm
17	9 ± 3 dBm	17	9 ± 3 dBm	12	6 ± 4 dBm	12	6 ± 4 dBm
18	7 ± 3 dBm	18	7 ± 3 dBm	13	4 ± 4 dBm	13	4 ± 4 dBm
19	5 ± 3 dBm	19	5 ± 3 dBm	14	2 ± 5 dBm	14	2 ± 5 dBm
				15	0 ± 5 dBm	15	0 ± 5 dBm

WCDMA/GSM/EDGE	WLAN		
The highest reported SAR values are:	The highest reported SAR values are:		
• Head: 0.36 W/kg	• Head: 0.19 W/kg		
Body-worn accessory: 0.78 W/kg	Body-worn accessory: 0.12 W/kg		
Product Specific Use: 0.90 W/kg	Product Specific Use: 0.11 W/kg		

#### **Main Function**

Processor Mediatek Strong Quad-Core Corte MT6589 (1.2 GHz)	x-A7
Precise GPS positioning	
4.5 inch high-end IPS retina screen	
1G RAM + 4GB ROM	
Dual cards dual stay	

#### Cameras:

- 13 Mega pixels Auto-Focus Rear Camera with Flashlight
- 5 Mega pixels Front Camera (able to video chat)

## **SERVICE MANUAL**

#### **CUBOT ONE**

# APS WOODS Several Calcular Cal

#### **CONTENTS**

- 1. GENERAL SPECIFICATION
- 2. GSM TX POWER CLASS
- 3. REPORTED SAR
- 4. MAIN FUNCTION

Technical Parameters	GSM 850	EGSM 900	DCS 1800	PCS 1900	WCDMA 2100	WCDMA 850
Frequency Band [Mhz] Uplink/Downlink	824 ~ 849	880 ~ 915	1710 ~ 1785	1850 ~ 1910	1922 ~ 1977	824 ~ 849
	869 ~ 894	925 ~ 960	1805 ~ 1880	1930 ~ 1990	2112 ~ 2167	869 ~ 894
ARFCN Range	128 ~ 251	0 ~ 124 & 975 ~ 1023	512 ~ 885	512 ~ 810	UL: 9612 ~ 9888	UL: 4132 ~ 4233
					DL: 10562 ~ 10838	DL: 4357 ~ 4458
Tx/Rx Spacing	45 Mhz	45 Mhz	95 Mhz	80 Mhz	190 Mhz	45 Mhz
Mod. Bit Rate/Bit Period	270.833 kbps	270.833 kbps	270.833 kbps	270.833 kbps	3.84 Mcps	3.84 Mcps
	3.692 us	3.692 us	3.692 us	3.692 us		
Time Slot	576.9 us	576.9 us	576.9 us	576.9 us	FrameLength: 10ms	FrameLength: 10ms
Period/Frame Period	4.615 ms	4.615 ms	4.615 ms	4.615 ms	Slotlength: 0.667ms	Slotlength: 0.667ms
Modulation	0.3 GMSK	0.3 GMSK	0.3 GMSK	0.3 GMSK	QPSKHQPSK	QPSKHQPSK
MS Power	33 dBm ~ 5 dBm	33 dBm ~ 5 dBm	33 dBm ~ 5 dBm	33 dBm ~ 5 dBm	24 dBm ~ -50 dBm	24 dBm ~ -50 dBm
Power Class	5 pcl ~ 19 pcl	5 pcl ~19 pcl	0 pcl ~ 15 pcl	0 pcl ~ 15 pcl	3(max+ 24dBm)	3(max+ 24dBm)
Sensitivity	- 102 dBm	- 102 dBm	- 100 dBm	- 100 dBm	- 106.7 dBm	- 106.7 dBm
TDMA Mux	8	8	8	8	8	8
Cell Radius	35 Km	35 Km	2 Km	2 Km	2 Km	2 Km

Tx Power Control	GSM 850	Tx Power Control	EGSM 900	Tx Power Control	DCS 1800	Tx Power Control	PCS 1900
5	33 ± 2 dBm	5	33 ± 2 dBm	0	30 ± 3 dBm	0	30 ± 3 dBm
6	31± 2 dBm	6	31 ± 2 dBm	1	28 ± 3 dBm	1	28 ± 3 dBm
7	29 ± 2 dBm	7	29 ± 2 dBm	2	26 ± 3 dBm	2	26 ± 3 dBm
8	27 ± 2 dBm	8	27 ± 2 dBm	3	24 ± 3 dBm	3	24 ± 3 dBm
9	25 ± 2 dBm	9	25 ± 2 dBm	4	22 ± 3 dBm	4	22 ± 3 dBm
10	23 ± 2 dBm	10	23 ± 2 dBm	5	20 ± 3 dBm	5	20 ± 3 dBm
11	21 ± 2 dBm	11	21 ± 2 dBm	6	18 ± 3 dBm	6	18 ± 3 dBm
12	19 ± 2 dBm	12	19 ± 2 dBm	7	16 ± 3 dBm	7	16 ± 3 dBm
13	17 ± 2 dBm	13	17 ± 2 dBm	8	14 ± 3 dBm	8	14 ± 3 dBm
14	15 ± 2 dBm	14	15 ± 2 dBm	9	12 ± 4 dBm	9	12 ± 4 dBm
15	13 ± 2 dBm	15	13 ± 2 dBm	10	10 ± 4 dBm	10	10 ± 4 dBm
16	11 ± 3 dBm	16	11 ± 3 dBm	11	8 ± 4 dBm	11	8 ± 4 dBm
17	9 ± 3 dBm	17	9 ± 3 dBm	12	6 ± 4 dBm	12	6 ± 4 dBm
18	7 ± 3 dBm	18	7 ± 3 dBm	13	4 ± 4 dBm	13	4 ± 4 dBm
19	5 ± 3 dBm	19	5 ± 3 dBm	14	2 ± 5 dBm	14	2 ± 5 dBm
				15	0 ± 5 dBm	15	0 ± 5 dBm

WCDMA/GSM/EDGE	WLAN		
The highest reported SAR values are:	The highest reported SAR values are:		
• Head: 0.36 W/kg	• Head: 0.19 W/kg		
Body-worn accessory: 0.78 W/kg	Body-worn accessory: 0.12 W/kg		
Product Specific Use: 0.90 W/kg	Product Specific Use: 0.11 W/kg		

#### **Main Function**

Processor Mediatek Strong Quad-Core Cortex-A7
MT6589 (1.2 GHz)

4.7 inch high-end IPS retina screen

1GB RAM + 8GB ROM

Dual cards dual stay

#### Cameras:

- 13 Mega pixels Auto-Focus Rear Camera with Flashlight
- 5 Mega pixels Front Camera (able to video chat)