

**Technical Specification  
of  
GSM QUAD BAND  
Fixed Wireless Phone MW-15**



**MAXCOMM, TAIWAN**


## CONTENTS

1	General introduction .....	2
2	Appearance and Structure .....	2
3	Functions.....	2
3.1	Basic Functions .....	2
3.2	Advanced Functions.....	3
3.3	Product Models .....	3
4	Technical Specifications of MW-15 Host .....	3
4.1	RF Receive sensitivity.....	3
4.2	RF receive/transmit frequency .....	3
4.3	Antenna gain .....	4
4.4	Others .....	4
4.5	Working Condition.....	4
5	Technical Specifications for Accessories .....	4
5.1	Power Adapter .....	4
5.2	Battery .....	5
6	A Complete Set of Product.....	5

## 1 General introduction

MW-15 GSM Wireless phone has been designed to operate with the latest GSM digital communication technology. The GSM technology has many advanced features .

## 2 Appearance and Structure

Item	MW-15	Remark
Outlook		
Material	ABS (Acrylonitrile Butadiene Styrene)	
Display	128*64 LCD with back light	
Antenna	SMA connector,	50Ω impedance, 3dB Gain
Power Switch	Rocker switch	
Power Socket	DC input	

## 3 Functions

### Basic Functions

Item	Description	Remark
Calling	Make calls	
	Receive calls	
	Delay number send	
	Call forwarding	Network support required
	Three-way calling	Network support required
	Call waiting	Network support required
Phonebook	Save numbers	Supported
SMS	Sending/Receiving SMS	More than 100 SMS can be saved

Alarm clock		Can be set from 1~99 seconds
Display	Display signal (strong or weak)	4 lattice
	Display electric quantity of battery	3 lattice
	Data/Time/Week display	Time 24-hour mode
	SMS display	Icon
Volume	Ring volume is adjustable	Yes
	Handset volume is adjustable	Yes

**Advanced Functions**

Item	Description	Remark
SIM card	Must insert SIM card	SIM-card voltage is 3v
Add prefix number	Setting prefix dial number	
Security	Lock/Unlock Card Lock/Unlock Terminal Lock/Unlock Network	

**Product Models**

Model	Explanation	Remark
MW-15	GSM 900/1800MHZ or GSM 850/900/1800/1900MHZ	

**4 Technical Specifications of MW-15 Host**

**RF Receive sensitivity**

RF receive sensitivity Frequency	Receive sensitivity
GSM850	< -106dBm
E-GSM900	< -106dBm
DCS1800	< -104dBm
PCS1900	< -104dBm

**RF receive/transmit frequency**

Frequency	Receive	Transmit
GSM850	869 ~ 894MHz	824 ~ 849 MHz
E-GSM900	925 ~ 960MHz	880 ~ 915MHz
DCS1800	1805 ~ 1880MHz	1710 ~ 1785MHz
PCS1900	1930 ~ 1990MHz	1850 ~ 1910MHz

### Antenna gain

Item	parameter	
Gain(dBi)	GSM	DCS
	0.5	1
Pattern	Omnidirectional antenna	

### 4.4 Others

No	Item	Value	Remarks
1	Power Consumption	Static $\leq 25\text{mA}$ , Transmit $\leq 1.5\text{A}$	
2	Ambient noise	$\leq 60\text{dB}$	
3	Interface standard	SMA antenna interface.	
4	Feed Current	15mA	

### 4.5 Working Condition

Working temperature :  $-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$

Storage temperature :  $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$

Humidity :  $<95\%$

## 5 Technical Specifications for Accessories

### Power Adapter

Item		Technical Spec.
Type		Switch mode power supply
Input	Voltage	AC110~240V
	Frequency	47Hz~63Hz
	Max.input current	$<300\text{mA}$
Efficiency		$\geq 78\%$
Output	Voltage	4.5V~5.0V DC
	Max.current	1A
Output (Customize)	Voltage	12VDC
	Max.current	1A

**Battery**

Item	Technical Spec	Remark
Type	Ni-MH	
Capacity	1200 mAH	can be print by battery supplied can be used for more than 48 hours in idle mode by battery supplied.
Voltage	3.6V	
Talk time	>2hr	Signal strength is – 75dBm
Standby time	>48hr	Signal strength is – 75dBm
Charging time	<10hr	

**6 A Complete Set of Product**

NO.	Name	Model	Q'ty	Remark
1	GSM Phone Host	MW-15	1	
2	Antenna		1	
3	Power adapter		1	Input AC : 110~240V , Output DC : 12V ( or Output 4.5V~5.0V DC )
4	Ni-MH battery		1	1200mAH or 1800mAH is optional, in FWT
6	USB data cable		1	Optional
7	User' Manual		1	1