
Technical Specification Of GSM SMS PRINTER & AIRTIME RECHARGE DEVICE



MP-12

1 General introduction

MP-12 GSM SMS PRINTER & AIRTIME RECHARGE DEVICE has been designed to operate with the latest GSM digital communication technology. The GSM technology has many advanced features .

2 Appearance and Structure

Item	MP-12	Remark
Material	ABS (Acrylonitrile Butadiene Styrene)	
Dimension	155mm×235mm×95mm	Excluding antenna
Weight	≈0.8kg Main unit	≈1.2KG(Package/charger/device)
Display	128*64 LCD with back light	
Antenna	SMA connector,	50Ωimpedance,3dBGain
Power Switch	Rocker switch	
Power Socket	DC input	

3 Functions

3.1 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		
SMS	Sending/Receiving SMS	More than 100 SMS can be saved
	SMS auto reply	Can be fixed by user
Alarm clock		Can be set from 1~99 seconds
Printer	Build-in thermal sensitivity printer	Print SMS and so on
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

3.2 Advanced Functions

Item	Description	Remark
SIM card	Must insert SIM card	SIM-card voltage is 3v
Add prefix number	Setting prefix dial number	
Air Charge	Do charge by SMS or STK	charge by SMS requires support of platform
SMS Order	Receive customer's SMS order and print order	
Security	Lock/Unlock Card Lock/Unlock Terminal Lock/Unlock Network	

3.3 Product Models

Model	Explanation	Remark
MP-12	GSM 900/1800MHZ or GSM 850/900/1800/1900MHZ	

4 Technical Specifications of MP-12Host

4.1 RF Receive sensitivity

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

4.2 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

4.3 Antenna gain

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

4.4 Thermal sensitivity printer

No	Item	Parameter
1	Paper module	thermal paper (57*50)
2	Printing resolution	8 dots/mm
3	Speed	Maximum 60mm/sec.(480 dot line/sec.)
4	Effective printing area	48mm
5	Number of columns	ANK 32 columns/line
6	Mechanic life	Pulse resistance:100 million pulses/dot(under our standard conditions); Abrasion resistance: paper traveling distance 50km(print ratio:25% or less)

4.5 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	

4.6 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

5.1 Power Adapter

Item		Technical Spec.
Type		Switch mode power supply
Input	Voltage	AC110~240V
	Frequency	47Hz~63Hz
	Max.input current	<300mA
Efficiency		≥78%
Output	Voltage	12VDC
	Max.current	2A

5.2 Battery

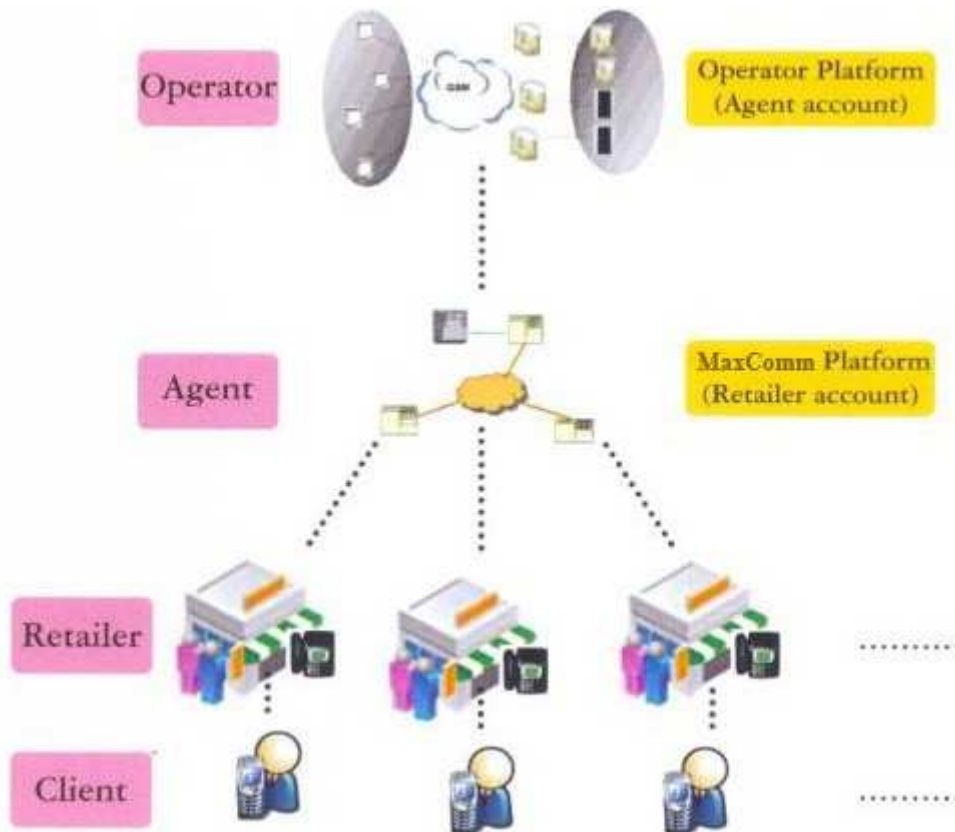
Item	Technical Spec	Remark
Type	Ni-MH	
Capacity	1200 mAH	can be print by battery supplied can be used for more than 48 hours in idle mode by battery supplied.
Voltage	3.6V	
Talk time	>2hr	Signal strength is -75dBm
Standby time	>48hr	Signal strength is -75dBm
Charging time	<10hr	

6 A Complete Set of Product

NO.	Name	Model	Q'ty	Remark
1	GSM SMS PRINTER & AIRTIME RECHARGE DEVICE	MP-12	1	
2	Antenna		1	

3	Power adapter		1	Input AC: 110~240V, Output DC: 12V
4	Ni-MH battery		1	1200mAH or 1800mAH is optional, in FWT
6	USB data cable		1	Optional
7	User' Manual		1	1
8	Modem Driver CD		1	Optional

7 Network Topology



8 Technical Parameters

