

Translated English of Chinese Standard: YDT1214-2006

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YD

**Telecommunication Industry Standard
Of the People's Republic of China**

YD/T 1214-2006

**Technical requirement of 900/1800MHz TDMA
Digital Cellular Mobile Telecommunication
Network General Packet Radio Service (GPRS)
Equipment: Mobile Stations**

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Issued on: June 8, 2006

Implemented on: October 1, 2006

**Issued by: Ministry of Industry Information Technology, the People's
Republic of China**

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Preface

This Standard is one of the following serial standards of General Packet Radio Service (GPRS) Equipment for 900/1800MHz TDMA Digital Cellular Mobile Telecommunication Network. The structure and names of the serial specifications are expected as follows:

1. YD/T 1214-2006 Technical Requirements for 900/1800MHz TDMA Digital Cellular Mobile Telecommunication Network for General Packet Radio Service (GPRS) Equipment: Mobile Station.
2. YD/T 1215-2006 Testing Methods of 900/1800MHz TDMA Digital Cellular Mobile Telecommunication Network General Packet Radio Service (GPRS) Equipment: Mobile Stations

This Standard is used along with YD/T 1215-2006 900/1800MHz TDMA Digital Cellular Mobile Telecommunication Network Test Method for General Packet Radio Service (GPRS) Equipment - Mobile Station (MS).

This Standard is a substitution of YD/T 1214-2002 900/1800MHz TDMA Digital Cellular Mobile Telecommunication Network Technical Requirements for General Packet Radio Service (GPRS) Equipment - Mobile Station (MS).

Compared with YD/T 1214-2002, this Standard has the following changes:

a) Add the part of function requirements:

5.3.1 Calling/called Information Display

5.3.17 Call Time Indication

5.3.18 Phonebook Selection for SMS Delivery

5.3.19 CS WAP Feature

5.3.20 Input Method

5.3.21 Data Interface

5.3.22 Storage Card Interface

5.3.24 Battery Recharge

b) Delete the partial contents in supplementary services:

The items related to the called in Calling Line Identification Presentation Type;

The related items in the group;

The related items in Line Identification Presentation Type;

Other items.

c) The original ETSI-based numbering rule of the international standards quoted in the document is changed to 3GPP-based numbering rule with the deletion of version number.

d) Audio performance and environment adaptability, life test etc. are deleted, and the related industrial standards are directly referred to.

Appendix A and B of this Standard are the normative appendixes.

The specification is proposed and managed by China Communications Standards Association (CCSA).

This Standard is drafted by: China MII Telecommunication Institute, ZTE Company, and Nokia Capital Communication Co. Ltd.

This Standard is written by: Ma Xin, Wei Ran, Liu Jun, and Li Bo.

It is the first revision of the original standard that was released in June, 2002.

Technical Requirements for 900/1800MHz TDMA Digital Cellular Mobile Telecommunication Network for General Packet Radio Service (GPRS) Equipment: Mobile Station

1 Scope

This Standard defines the requirements for 900/1800MHz TDMA Digital Cellular Mobile Telecommunication Network General Packet Radio Service (GPRS) Equipment MS in the service, function, performance, interface, EMC and environment adaptability.

This Standard is applicable to MS - 900/1800MHz TDMA Digital Cellular Mobile Telecommunication Network supporting GPRS – which supports GPRS and GSM MS which does not support GPRS. Other technical requirements except GPRS related requirements are applicable to GSM MS that does not support GPRS.

2 Quoted Standards

The following standards contribute the stipulations of the specification after being quoted. All the revision versions (excluding correction version) of the quoted standards specified with date are not applicable for the document. Users are encouraged to explore the possibility to use the latest version of the following standards. The latest versions of the quoted documents without date specified are applicable to this Standard.

GB/T 18287	General Specification of Li-Ion Battery for Cellular Phone
GB/T 18288	General Specification of metal hydride nickel Battery for Cellular Phone
GB/T 18289	General Specification of Metal Ni-CD Battery for Cellular Phone
YD 1268	The Safety Specification and Test Method for Lithium Batteries and Charger for Mobile Phone
YD/T 965	Safety Requirement and Test Method of Telecommunication Terminal Equipment Reliability Requirement and Test Method of Mobile Phone Audio Performance Requirement and Test Method of Mobile Phone
YD/T 910.21	900/1800MHz TDMA Digital Cellular Mobile Telecommunication Network Radio Interface Phase 2 Signaling Part
YD/T 910.22	900/1800MHz TDMA Digital Cellular Mobile Telecommunication Network Radio Interface Phase 2 Physical Layer Part
YD 1032	EMC requirement & Test method for 900/1800MHz TDMA Digital Cellular Mobile System Party One: Mobile Station and its Auxiliary Equipment
ITU-T	Recommended definition of I.240 ISDN service capability telecom service
3GPP TS 01.61	GPRS encryption algorithm requirements
3GPP TS 02.60/3	GPP TS 22.060 GPRS Service Description: Phase 1
3GPP TS 03.03/3	GPP TS 23.003 coding, address and identity
3GPP TS 03.60/3	GPP TS 23.060 GPRS Service Description: Phase 2
3GPP TS 03.64/3	GPP TS 43.064 GPRS Overall Description of Radio Interface: Phase 2

5.3.17 Call Time Indication

During the call, MS shall be able to correctly display the time length since connection; once the call is over, MS shall display the total duration of the call from connection to termination.

5.3.18 Phonebook Selection for SMS Delivery

MS shall support the selection function of the number stored in the phonebook at sending SMS.

5.3.19 CS WAP Feature

When MS supports WAP function, it shall support CS WAP function.

5.3.20 Input Method

MS shall at least support the input of simplified Chinese and digital, where the input method of simplified Chinese shall support at least Pinyin.

5.3.21 Data Interface

The functions of various available data interfaces provided by MS to users shall be normal.

5.3.22 Storage Card Interface

When MS has a storage card interface, it shall be able to work normally, and MS shall be normally available for it.

5.3.23 Battery Capacity Indication and Alarm

MS shall have battery capacity indication and recharge status indication, which shall change in the same direction as the capacity of the battery. Alarm indication at low battery shall be raised.

5.3.24 Battery Recharge

MS shall accept the charging. During the process from the beginning to the end of the charging, when the user performs the operation, MS shall be able to accept and process the operation; when the user does not perform the operation, MS power-off state shall not be changed. The battery shall be terminated the charging process when it is full.

5.3.25 Chinese Language Support

MS menu and prompt information shall be simplified Chinese.

MS that supports SMS shall support simplified Chinese edit, send and receive of SMSs.

5.3.26 Other MS functions

Other MS functions shall be correctly realized according to instructions given.

5.4 GPRS MS Service Requirements

5.4.1 Bearer service

The bearer services supported by GPRS MS include point-to-point data service (PTP). MS

The physical layer shall comply with the following 3GPP recommendations: 3GPP TS 05.001/3GPP TS 45.001, 3GPP TS 05.02/3GPP TS 45.002, 3GPP TS 05.03/3GPP TS 45.003, 3GPP TS 05.04/3GPP TS 45.004, 3GPP TS 05.05/3GPP TS 45.005, 3GPP TS 05.08/3GPP TS 45.008 and 3GPP TS 05.10/3GPP TS 45.010.

The transmission platform shall comply with the following 3GPP recommendations:

- SNDCP: 3GPP TS 04.65/3GPP TS 44.065.
- LLC: 3GPP TS 04.64/3GPP TS 44.064.
- RLC/MAC: 3GPP T 04.60/3GPP TS 44.060.

The signaling platform shall comply with the following 3GPP recommendations:

- GMM/SM: 3GPP TS 04.08/3GPP TS 44.008.
- LLC: 3GPP TS 04.64/3GPP TS 44.064.
- RLC/MAC: 3GPP TS 04.60/3GPP TS 44.060.

7.2 SIM/ME Interface

SIM-ME interface shall meet the requirements of 3GPP TS 11.11(5V), 3GPP TS 11.12(3V) or 3GPP TS 11.18(1.8V).

8 Electromagnetic compatibility (EMC)

MS shall meet the requirement of YD1032 EMC requirement & Test method for 900/1800MHz TDMA Digital Cellular Mobile System.

9 Environment Requirements

MS shall meet the requirement of Reliability Requirement and Test Method of Mobile Phone.

10 Requirement of Battery and Charger

10.1 Battery Performance

Various Li-ion battery performances shall meet the requirements of GB/T 18287 General Specification of Li-Ion Battery for Cellular Phone;

Various metal hydride nickel battery performances shall meet the requirements of GB/T 18288 General Specification of Metal Hydride Nickel Battery for Cellular Phone;

Various metal Ni-CD battery performances shall meet the requirements of GB/T 18289 General Specification of Metal Ni-CD Battery for Cellular Phone;

Various Li-ion battery security requirements shall meet the requirements of YD 1268 Safety Requirement and Test Method of Li-Ion Battery and charger for Mobile Phone.

10.2 Charger Security

The charger security shall meet the requirements of YD/T 965 Safety Requirement and Test Method of Telecommunication Terminal Equipment and YD 1268 Safety Requirement and Test

Alarm	
Battery Recharge	Mandatory for handheld MS
Chinese Language	Mandatory for MS with a man-machine interface
Other MS functions	Mandatory

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