

Notification of the National Telecommunications Commission

On Technical Standards for Telecommunication Equipment

Re: User Equipment of Cellular Land Mobile Service Using GSM Technology

B.E. 2553 (2010)

Whereas the National Telecommunications Commission has a policy to revise technical standards for the radiocommunication equipment and accessories widely in use to keep pace with the changing technologies and comply with the international requirements without causing undue burden on the operators as well as to eliminate problems of frequency interference and increase efficient use of radio frequencies;

Pursuant to Section 51 (6) and Section 78, paragraph one, of the Act on Organization to Assign Radio Frequency and to Regulate the Broadcasting and Telecommunication Services, B.E. 2543 (2000), which contains certain provisions regarding the restriction of the rights and freedom of an individual as permitted to be done under the law by Article 29, in conjunction with Article 35, Article 36, Article 43, Article 45, Article 46, Article 47, Article 61 and Article 64 of the Constitution of the Kingdom of Thailand; and pursuant to Section 32 of the Telecommunications Business Act, B.E. 2544 (2001), which contains certain provisions regarding the restriction of the rights and freedom of an individual as permitted to be done under the law by Article 29, in conjunction with Article 35, Article 36, Article 41, Article 43 and Article 45 of the Constitution of the Kingdom of Thailand; together with Section 29 (4) of the Radiocommunications Act, B.E. 2498 (1955), which contains certain provisions regarding the restriction of the rights and freedom of an individual as permitted to be done under the law by Article 29, in conjunction with Article 35, Article 36, Article 41, Article 43, Article 45, Article 46, Article 47 and Article 61 of the Constitution of the Kingdom of Thailand; the National Telecommunications Commission hereby repeals the Notification of the National Telecommunications Commission on Technical Standards for Telecommunication Equipment Re: User Equipment of Cellular Land Mobile Service Using GSM Technology which was issued on 29 August, B.E. 2548 (2005) and prescribes Technical Standards for Telecommunication Equipment Re: User Equipment of Cellular Land Mobile Service Using GSM Technology, as detailed in the Technical Standards No. NTC TS 1004 – 2553 appended hereto.

Unofficial Translation

This Notification shall come into force as from the day following the date of its publication in the Government Gazette.

Announced on the 7th day of May B.E. 2553 (2010)

Professor Prasit Prapinmongkolkarn

Chairman of the National Telecommunications Commission

This English version is prepared by International Organizations Bureau with the sole purpose of facilitating the comprehension of foreign participants in the telecommunication rules and regulations and shall not in any event be construed or interpreted as having effect in substitution for or supplementary to the Thai version thereof.

Please note that the translation has not been subjected to an official review by the Office of the National Telecommunications Commission. The Office of NTC, accordingly, cannot undertake any responsibility for its accuracy, nor be held liable for any loss or damages arising out of or in connection with its use.



Technical Standards for Telecommunication Equipment

NTC TS 1004 - 2553

**User Equipment of Cellular Land Mobile Service
Using GSM Technology**

**Office of the National Telecommunications Commission
87 Phahon Yothin 8 Road, Samsennai, Phayathai, Bangkok 10400**

Tel. 0 2271 0151-60 Website: www.ntc.or.th

Technical Standards for Telecommunication Equipment
NTC TS 1004 - 2553
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Technical Standards for Telecommunication Equipment
NTC TS 1004 - 2553
User Equipment of Cellular Land Mobile Service Using GSM Technology

1. Scope

This technical standard specifies the minimum technical characteristics for radiocommunication equipment of cellular land mobile service using Global System for Mobile Communications (GSM) technology with channel spacing of 200 kHz in the following frequency ranges:

Type	Transmitting Frequency	Receiving Frequency
GSM900	880 – 915 MHz	925 – 960 MHz
GSM1800 or DCS1800	1710 – 1785 MHz	1805 – 1880 MHz
GSM1900 or PCS1900	1850 – 1910 MHz	1930 – 1990 MHz

2. Technical Requirements

Technical requirements for transmitters, receivers and transceivers of user equipment of cellular land mobile service using GSM technology shall comply with any of the following standards:

- 2.1 ETSI EN 300 607-1: Digital Cellular Telecommunications System (Phase 2+) (GSM); Mobile Station (MS) Conformance Specification; Part 1: Conformance Specification (GSM 11.10-1)
- 2.2 ETSI TS 151 010-1: Digital Cellular Telecommunications System (Phase 2+); Mobile Station (MS) Conformance Specification; Part 1: Conformance Specification (3GPP TS 51.010-1)
- 2.3 ETSI EN 301 511: Global System for Mobile Communications (GSM); Harmonized EN for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements of article 3.2 of the R&TTE directive (1999/5/EC)

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3. Radiation exposure requirements

The use of user equipment of cellular land mobile service using GSM technology shall comply with the safety standard for the use of radiocommunication equipment on human health as well as safety criteria and measures for the use of radiocommunication equipment on human health prescribed by the National Telecommunications Commission.

4. Conformity with the Standard

The user equipment of cellular land mobile service using GSM technology shall present its conformity with this Standard. It shall be regarded as telecommunication equipment Type B prescribed in the Notification of the National Telecommunications Commission Re: Conformity Assessment of Telecommunication Equipment.
