

Notification of the National Telecommunications Commission

On Technical Standards for Telecommunication Equipment

Re: Radiocommunication Equipment for Base Station and Repeater in Cellular Land Mobile Service

Using GSM Technology

The National Telecommunications Commission has a policy of setting technical standards for the telecommunication equipment which is used widely and internationally to keep pace with current technological circumstances, so that the telecommunication equipment would objectively meet technical requirements, be able to operate without causing interference, and without undesired effects on the telecommunication networks or services, as well as to ensure consumer protection, for the benefits of the overall telecommunication industry and in order that the national technical standards are harmonized with international standards.

Pursuant to Section 51 (6) and Section 78 paragraph one of the Act on the Organization to Assign Radio Frequency and to Regulate the Broadcasting and Telecommunication Services B.E. 2543 (2000), and Section 32 paragraph one of the Telecommunications Business Act B.E. 2544 (2001), together with Section 29 (4) of the Radiocommunications Act B.E. 2498 (1955), and its amendments, the National Telecommunications Commission at its Meeting No. 41/2549 on 29 November B.E. 2549 (2006), approved for the issuance of the Notification on Technical Standards for Telecommunication Equipment regarding Radiocommunication Equipment for Base Station and Repeater in Cellular Land Mobile Service Using GSM Technology, as detailed in the Standard No. NTC TS 1008-2549 appended hereto.

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

Issued on the 28th day of December B.E. 2549 (2006)

General Choochart Promphasid

Chairman of the National Telecommunications Commission



Technical Standards for Telecommunication Equipment

NTC TS 1008 — 2549

Radiocommunication Equipment for Base Station and Repeater In Cellular Land Mobile Service Using GSM Technology

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Technical Standards for Telecommunication Equipment:
Radiocommunication Equipment for Base Station and Repeater
In Cellular Land Mobile Service Using GSM Technology

1. Scope

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

Technology	Transmitting frequency	Receiving frequency
E-GSM900	925 - 960 MHz	880 - 915 MHz
GSM1800 or DCS1800	1805 - 1880 MHz	1710 - 1785 MHz
GSM1900 or PCS1900	1930 - 1990 MHz	1850 - 1910 MHz

2. Technical Requirements

2.1 Radio frequency requirements

The radio frequency requirements for transmitters, receivers and transceivers of the radiocommunication equipment for base station and repeater in cellular land mobile service using GSM technology shall comply with one or more of the following standards:

- 2.1.1 ETSI EN 301 502 : Harmonized EN for Global System for Mobile communications (GSM); Base Station and Repeater equipment covering essential requirements under Article 3.2 of the R&TTE Directive (GSM 13.21 version 8.1.2 Release 1999)
- 2.1.2 ETSI EN 301 087 : Digital cellular telecommunications system (Phase 2 & Phase 2+); Base Station System (BSS) equipment specification; Radio aspects (GSM 11.21 version 8.2.1 Release 1999)
- 2.1.3 ETSI EN 300 609-4 : Digital cellular telecommunications system (Phase 2 & Phase 2+); Base Station System (BSS) equipment specification; Part 4: Repeaters (GSM 11.26 version 8.0.2 Release 1999)

2.2 Electrical safety requirements

The electrical safety requirements for such radiocommunication equipment for base station and repeater in cellular land mobile service using GSM technology shall comply with one or more of the following standards:

2.2.1 IEC 60950 - 1 : Information Technology equipment – Safety - Part 1: General Requirements

2.2.2 TISI 1561 - 2548 : Information Technology equipment – Safety: General Requirements

2.3 Radiation exposure requirements

The installation of base station and repeater in cellular land mobile service using GSM technology shall comply with the radiation exposure requirements set forth by the National Telecommunications Commission.
