

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 IMT-2000 CDMA Multi-Carrier (cdma 2000) 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 IMT-2000 CDMA Multi-Carrier (cdma 2000) Technology, as detailed in the Standard No. NTC TS 1016-2549 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 Promphrasid

Chairman of the National Telecommunications Commission



Technical Standards for Telecommunication Equipment

NTC TS 1016 – 2549

**Radiocommunication Equipment for Base Station and Repeater
In Cellular Land Mobile Service
Using IMT-2000 CDMA Multi-Carrier (cdma2000) Technology**

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**Technical Standards for Telecommunication Equipment:
Radiocommunication Equipment for Base Station and Repeater
In Cellular Land Mobile Service
Using IMT-2000 CDMA Multi-Carrier (cdma2000) 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 IMT-2000 CDMA Multi-Carrier (cdma2000) technology and having channel spacing of 1.25 MHz per carrier in the following frequency range:

Technology	Transmitting frequency	Receiving frequency
cdma2000 (band class 6)	2110 - 2170 MHz	1920 - 1980 MHz
cdma2000 (band class 0)	869 - 894 MHz	824 - 849 MHz
cdma2000 (band class 5F)	489 - 493.5 MHz	479 - 483.5 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 IMT-2000 CDMA Multi-Carrier (cdma2000) technology shall comply with one or more of the following standards:

2.1.1 ANSI/TIA 97 : Recommended Minimum Performance Standards for cdma2000 Spread Spectrum Base Stations

ANSI/TIA-2000.2-D : Physical Layer Standard for cdma2000 Spread Spectrum Systems - Release D

2.1.2 EN 301 908-1 : Electromagnetic compatibility and Radio spectrum Matters (ERM); Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 1: Harmonized EN for IMT-2000, introduction and common requirements, covering essential requirements of Article 3.2 of the R&TTE Directive

EN 301 908-5 : Electromagnetic compatibility and Radio spectrum Matters (ERM);
Base Stations (BS), Repeaters and User Equipment (UE) for IMT-
2000 Third-Generation cellular networks; Part 5: Harmonized EN for
IMT-2000, CDMA Multi-Carrier (cdma2000) (BS and Repeaters)
covering essential requirements of Article 3.2 of the R&TTE
Directive

2.2 Electrical safety requirements

The electrical safety requirements for the radiocommunication equipment for base station and repeater in cellular land mobile service using IMT-2000 CDMA Multi-Carrier (cdma2000) 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 installations of base station and repeater in cellular land mobile service using IMT-2000 CDMA Multi-Carrier (cdma2000) technology shall comply with the radiation exposure requirements set forth by the National Telecommunications Commission.
