

GY

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GY/T 220.2-2006

**Mobile Multimedia Broadcasting - Part 2: Multiplexing
(English Translation)**

Issued on: November 29, 2006

Implemented on: December 1, 2006

Issued by: State Administration of Radio, Film & Television

Table of Contents

Foreword...	3
Introduction...	4
1 Scope...	5
2 Normative references...	5
3 Terms, Definitions, Abbreviations and Defaults...	5
3.1 Terms and Definitions...	5
3.2 Abbreviations...	7
3.3 Defaults...	9
4 Overview...	9
5 Structure of Multiplex Frame...	10
5.1 Multiplex Frame Header...	11
5.2 Multiplex Frame Payload...	15
6 Control Information Table...	16
6.1 Overview...	16
6.2 Network Information Table...	17
6.3 Continual service / Sort time service Multiplex Configuration Table...	20
6.4 Continual service / Sort time service Multiplex Configuration Table...	23
7 Multiplex Sub-frame...	25
7.1 Sub-frame header...	27
7.2 Video section...	33
7.3 Audio section...	36
7.4 Data section...	37
Appendix A...	40
Appendix B...	42

Foreword

GY/T 220 Mobile Multimedia Broadcasting is in series standards.

- Part 1. Framing Structure Channel Coding and Modulation for Broadcasting Channel.

This Part is part 2 of GY/T 220.

Appendix A and Appendix B are normative.

This Standard shall be centralized by National Television Broadcast Standardization Technical Committee.

Drafting organization of this Standard. Academy of Broadcasting Science of State Administration of Radio, Film & TV; ZTE Corporation; and Beijing Taimei Century Technology Co., Ltd.

Introduction

The issuing organization of this Standard draws attention to the following facts that when a user [Translator note. i.e. the product to be marketed] claims that he/she complies with this Standard, it may use the relevant patents-authorization involved in the related contents in this Standard, and patents under application.

The issuing organization of this Standard has no opinion on the patents' scope, validity and validating evidence.

The patents-holders have guaranteed to the issuing organization of this Standard that they will grant licenses of their patents to any applicants who want to implement this Standard, on fair, reasonable and non-discriminatory terms. The patents-holder's statements have been submitted to the issuing organization of this Standard.

The table below shows the information of patents-holders.

Patents-holders	Address	Contacts	Zip code	Telephone	E-mail
-----------------	---------	----------	----------	-----------	--------

ZTE Corporation					
-----------------	--	--	--	--	--

A-5F, ZTE building,					
---------------------	--	--	--	--	--

Science and					
-------------	--	--	--	--	--

Technology Park,					
------------------	--	--	--	--	--

Nanshan District,					
-------------------	--	--	--	--	--

Shenzhen, China					
-----------------	--	--	--	--	--

Wang					
------	--	--	--	--	--

Haibo 518057 075526770044					
---------------------------	--	--	--	--	--

wanghaibo@zte.					
----------------	--	--	--	--	--

com.cn

Beijing Taimei

Century

Technology Co.,

Ltd.

11F, Bldg #2, No.2

LanDianChang

Eastern Road,

HaiDian District,

Beijing, China

Ye Ruirui 100097 010-88865631 Ruirui.ye@timitech.com

Please be noted that some contents in this Standard may involve other patents, except the patents identified in patent-statements for this Standard. The issuing organization of this Standard does not undertake the responsibility to identify these patents.

Mobile Multimedia Broadcasting -

Part 2. Multiplexing

1 Scope

This Standard specifies the video, audio, data and control information multiplex frame structure in mobile multimedia broadcast system.

This Standard applies to multimedia signal broadcast systems to transmit video, audio and data information via satellite and/or terrestrial wireless stations.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition

of the referenced document applies.

GB/T 2659-2000 Codes for the representation of names of countries and regions

GB/T 4880.2-2000 Codes for the representation of names of languages - Part 2.

Alpha-3 code

GB/T 15273.1-1994 Information processing 8-bit single-byte coded graphic character sets - Part 1. Latin alphabet No.1

GY/Z 174-2001 Specification of conditional access system for digital television broadcasting

GY/T 220.1-2006 Mobile Multimedia Broadcasting - Part 1. Framing structure, Channel Coding and Modulation for Broadcast Channel

3.1 Terms and Definitions

The following terms and definitions apply to this Standard.

3.1.1

CMMB (China Mobile Multimedia Broadcasting)

CRC (Cyclic Redundancy Check)

CSCT (Continual Service Configuration Table)

ES (Elementary Stream)

ESG (Electronic Service Guide)

LDPC (Low Density Parity Check)

LSB (Least Significant Bit)

MF_ID (Multiplex Frame Identifier)

MFS (Multiplex Frame Structure)

MJD (Modified Julian Date)

MSF (Multiplex Sub Frame)

MSF_ID (Multiplex Sub Frame Identifier)

MSB (Most Significant Bit)

MUX (Multiplex)

NIT (Network Information Table)