

**GY**

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

**GY/T 268.2-2013**

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**Digital audio broadcasting in FM band - Part 2: Multiplexing  
(English Translation)**

**Issued on: November 11, 2013**

**Implemented on: November 11, 2013**

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**Issued by: State Administration of Press, Publication, Radio, Film and  
Television of the People's Republic of China**

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## Foreword

GY/T 268 Digital Audio Broadcasting in FM Band has issued or is planned to issue the following parts.

- Part 1.Framing structure, channel coding and modulation for digital broadcasting channel;
- Part 2.Multiplexing;
- ...

This is part 2 of GY/T 26.

This part is drafted according to the rules provided in GB/T 1.1-2009.

This part shall be under the jurisdiction of National Technical Committee Radio, Film and

Television of Standardization Administration of China (SAC/TC 239).

Drafting organizations of this Part. China Radio International, Beijing Guangyi Data Communication Technology Co., Ltd., Suma Vision Technologies Co., Ltd. and Beijing Radio and Television Technology Hi-Tech Kunihiro Co., Ltd.

## **1 Scope**

This part specifies the multiplex frame structure of audio, data and control information in digital audio broadcasting system in 87-108MHz frequency range.

This part is applicable to the broadcasting system that transmits digital audio broadcasting service and digital service signal, through ground wireless covering method, in 87-108MHz frequency range.

## **2 Normative references**

The following documents are indispensable for application of this part. For the dated documents so quoted, only the dated versions apply to this part. For the undated documents so quoted, the latest versions (including all modification sheets) apply to this part.

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 - art 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

GB/T 28161-2011 Specification of service information for digital television broadcasting

GY/T 268.1-2013 Digital audio broadcasting in FM band - Part 1.Framing structure, channel coding and modulation for digital broadcasting channel

## **3 Terms and definitions**

The following terms and definitions are applicable to this part.

### **3.1 Service**

The content of the audio program is broadcasted according to the schedule.

### **3.2 Service description information channel**

It is the channel for carrying the service description information in the channel logic frame.

### **3.3 Service data channel**

It is the channel for carrying the service data in the channel logic frame.

### **3.4 Multiplex frame**

It is the data frame for encapsulating the control or service information.

### **3.5 Control multiplex frame**

It is one of the multiplex frames to encapsulate the control information.

## **4.1 Abbreviation**

The following abbreviations are applicable to this part.

CRC (Cyclic Redundancy Check)

ES (Elementary Stream)

## **4.2 Symbols**

The following symbols are applicable to this part.

bslbf (bit string, left bit first)

uimsbf (unsigned integer, most significant bit first)

## **4.3 Protocol**

The following protocols are applicable to this part.

## **5 Overview**

In the digital audio broadcasting system, the multiplex function is integrated with encapsulation and arrangement of audio, data, control information, etc., so as to transmit the information on the digital audio broadcasting system, as shown in figure 1.

### **6.1 Control multiplex frame header**

The structure composition of control multiplex frame header sees figure 4; and the specific syntactic structure sees table 1.

### **6.2 Payload of control multiplex frame**

The payload of the control multiplex frame is composed of one or multiple control information tables which are successively encapsulated in the control multiplex frame.

The structure of control multiplex frame payload sees figure 5.

### **6.3 Control information table**

The control information table is the general term of service multiplex configuration table, network information table and ESG basic description table carried in control multiplex frame payload. According to the length of the information carried by the service description information channel, the control information table can be transmitted by whole table or segmentation; and the definition is as follows.

#### **6.3.2 Network information table**

The network information table provides the network and configuration of the network in the adjacent area; and it is defined in table 4.

### **7.1 Service multiplex frame header**

The structure of service multiplex frame header sees figure 6; and the specific syntax structure sees table 5.

### **7.2 Payload of service multiplex frame**

The payload of service multiplex frame is composed of one or multiple multiplex sub-frame; and there are 15 multiplex sub-frames at most.

#### **7.3.4 Data block**

When the multiplex sub-frame is encapsulated by mode 2, each audio or data unit is divided into one or more data blocks; and the structure of the data block is shown in figure 11.