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### INTERNATIONAL STANDARD

# Digital audio interfaceh STANDARD PREVIEW Part 3: Consumer applications (standards.iteh.ai)

IEC 60958-3:2021 https://standards.iteh.ai/catalog/standards/sist/e027efe2-dc8c-40ba-a1f8-004f2925c196/iec-60958-3-2021





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#### **DIGITAL AUDIO INTERFACE -**

#### Part 3: Consumer applications

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IEC 60958-3 has been prepared by technical area 20: Analogue and digital audio, of IEC technical committee 100: Audio, video and multimedia systems and equipment. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2006, Amendment 1:2009 and Amendment 2:2015. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) The relevant part of IEC 60958-5 is supported.

The text of this International Standard is based on the following documents:

Draft	Report on voting				
100/3543/CDV	100/3594/RVC				

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

A list of all parts in the IEC 60958 series, published under the general title Digital audio interface, can be found on the IEC website.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members\_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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#### **DIGITAL AUDIO INTERFACE -**

#### Part 3: Consumer applications

#### 1 Scope

This part of IEC 60958 specifies the consumer application of the interface for the interconnection of digital audio equipment defined in IEC 60958-1.

NOTE When used in a consumer digital processing environment, the interface is primarily intended to carry stereophonic programmes, with a resolution of up to 20 bits per sample, an extension to 24 bits per sample being possible.

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60958-1, Digital audio interface A Part 1 General PREVIEW

IEC 60958-5, Digital audio interface Part 5: Consumer application enhancement

## Terms and definitions are supported by the support of the su

For the purposes of this document, the terms and definitions given in IEC 60958-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

#### 4 Interface format

The interface format as defined in IEC 60958-1 shall be used.

Unless otherwise specified in Annex A to Annex T, the following specification is applicable.

- Audio sample word has a length of 20 bits/sample. The auxiliary sample bits are an optional expansion of the audio sample, if not used = "0".
- User data is not used, all bits = "0".
- Channel status is identical for both subframes of the interface, with the exception of the channel number, if that is not equal to zero.

#### 5 Channel status

#### 5.1 General

For every subframe, the channel status bit provides information related to the audio channel that is carried in that same subframe.

Channel status information is organized in a 192-bit block, subdivided into 24 bytes, numbered 0 to 23 (see Table 1). The first bit of each channel status block is carried in the frame with preamble "B".

The individual bits of a channel status block are numbered 0 to 191.

The primary application is indicated by channel status bit 0.

As stated in IEC 60958-1, for the consumer digital audio applications described in this document and IEC 60958-5, this first channel status bit equals "0".

NOTE As stated in IEC 60958-1, for professional applications, this first channel status bit equals "1".

Secondary applications may be defined within the framework of these primary applications.

#### 5.2 Application

#### 5.2.1 Channel status general format

For each channel, the channel status block provides the information described in this clause and summarized in Table 1.

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Table 1 – Channel status general format for consumer use

0		a = "0"	b	С		d		M	ode
	bit	0	1	2	3	4	5	6	7
1	2			_			· ·		•
	bit	8	9	10	11	12	13	14	15
2									
	bit	16	17	18	19	20	21	22	23
3									
	bit	24	25	26	27	28	29	30	31
4									
	bit	32	33	34	35	36	37	38	39
5									
	bit	40	41	42	43	44	45	46	47
6									
	bit	48	49	50	51	52	53	54	55
7									
	bit	56	57	58	59	60	61	62	63
8									
	bit	64	65	66	67	68	69	70	71
9									
	bit	72	73	74	75	76	77	78	79
0			ileh	DIAN	DAKD	PKE	/ IE W		
	bit	80	81	82	83	84	85	86	87
1				(Stanu	arus.i	ten.ai)			
	bit	88	89	90	91	92	93	94	95
2		1	rtna://atendord	r itah sikastala	C 60958-3:20	<u>21</u> t/2027afs2_dc	0a 10ka a1f0		
•	bit	96	ntps://søandard	s.iteh.akcatalo 004f2925	g/standords/sis c196/iec-6095	t/e027ooe2-da 8-3-2021	8c-40 <b>b</b> a-a1f8	- 102	103
3	la i a	101	105	106	107		100	110	111
4	bit	104	105	106	107	108	109	110	111
•	bit	112	113	114	115	116	117	118	119
5	DIL	112	110	117	110	110	117	110	110
•	bit	120	121	122	123	124	125	126	127
6	2	.20	.2.		120	.2.	.20		
-	bit	128	129	130	131	132	133	134	135
7									
	bit	136	137	138	139	140	141	142	143
8									
	bit	144	145	146	147	148	149	150	151
9									
	bit	152	153	154	155	156	157	158	159
0									
	bit	160	161	162	163	164	165	166	167
1									
	Bit	168	169	170	171	172	173	174	175
2									
	Bit	176	177	178	179	180	181	182	183
3									
	Б.,	184	185	186	187	188	189	190	191
	Bit								

Byte 0: General control and mode information

#### Control:

Bit 0 "0" Consumer use of channel status block (Notes 1 and 2)

NOTE 1 The significance of byte 0, bit 0 is such that transmission from an interface conforming to IEC 60958-4 can be identified.

Bit 1 "0" Audio sample word represents linear PCM samples (Note 2)

"1" Audio sample word used for other purposes

NOTE 2 The functions of channel status bits 0 and 1 are defined in IEC 60958-1.

Bit 2 "0" Software for which copyright is asserted (Note 3)

"1" Software for which no copyright is asserted

NOTE 3 Bit 2 is referred to as the "Cp-bit". It indicates whether copyright protection has been asserted.

The copyright status can be unknown for certain applications. The above interpretation is therefore not valid in combination with some category codes (as indicated in the annex associated with the category code). The Cp-bit can alternate between 0 and 1 at a rate between 4 Hz and 10 Hz (see Annex A).

Bits 3 to 5 Additional format information, meaning depends on bit 1.

When bit 1 = "0", linear PCM audio mode: rds.iteh.ai)

Bit 3 4 5

State "0 0 0" 2 audio channels without pre-emphasis

https://standards.iteh.ai/gatalog/standards/sixt/e/07 efe/r168c-40ha-al-Ramphasis

"0 1 0" Reserved (for 2 audio channels with pre-emphasis)

"1 1 0" Reserved (for 2 audio channels with pre-emphasis)

"0 0 1" Assigned for IEC 60958-5

"0 1 1" Assigned for IEC 60958-5

All other states of bits 3 to 5 are reserved and shall not be used until further defined.

NOTE 4 The single and dual channel operating modes are defined with the frame format in IEC 60958-1.

When bit 1 = "1", other than linear PCM applications:

Bit 3 4 5

State "0 0 0" Default state for applications other than linear PCM

All other states of bits 3 to 5 are reserved and shall not be used until further

defined.

Bits 6 to 7 Channel status mode, indicates one of four possible channel status formats

(bytes 1 to 23). There are four possible modes for each of the states of

bit 1.

Bit 6 7

State "0 0" Mode 0, refer to 5.2.2

All other states of bits 6 and 7 are reserved and shall not be used until further defined.

The contents of bits 8 to 191 depend on the mode as indicated by bits 6 and 7. If not defined otherwise, the default value is "0".

#### 5.2.2 Mode 0 channel status format for digital audio equipment for consumer use

When the audio sample word represents linear PCM and the channel status mode is mode 0, the channel status format shown in Table 2 should be applied.

Table 2 - Mode 0 channel status format for consumer use

	a = "0"	b = "0"	С		d		Mode	= "0 0"
bit	0	1	2	3	4	5	6	7
		<u> </u>		Catego				
bit	8	9	10	11	12	13	14	15
			number	T		Channel		1
bit	16	17	18	19	20	21	22	23
		Sampling	frequency		Clock a	ccuracy		frequency nsion
bit	24	25	26	27	28	29	30	31
bit	32	Word 33	length 34	35	36	Original sampl	ing frequenc	<b>y</b> 39
DIL	CGM	l	CGMS-A	33		-		
			validity		Auto	sampling free	quency coeffi	cient
bit	40	41	42	43	44	45	46	47
	Information hidden in PCM signal							General channel assignment channel number for B channel
bit	48	49	50	51	52	53	54	55
			annel assignm nber for B cha		teh.ai)	LFE Playb	ack level	
bit	56	57	58	59	60	61	62	63
bit	64	, ,, 65 , ,	. 1 66 I	C 60958-3:20	21	0 4069 100	70	71
DIL	h h	tps://standard	<del>s.itch.avcatalo</del> g	<del>/standards/sis</del>	<del>√e027efe2-de</del>	8c 406a a1f8	70	71
bit	72	73	00 <u>4</u> 129250	1 <del>96/igc-6095</del>	<del>8-3-2921</del>	77	78	79
bit	80	81	82	83	84	85	86	87
bit	88	89	90	91	92	93	94	95
DIL	- 00	03	30	31	92	93	34	33
bit	96	97	98	99	100	101	102	103
bit	104	105	106	107	108	109	110	111
bit	112	113	114	115	116	117	118	119
Dit	112	110	114	110	110	117	110	110
bit	120	121	122	123	124	125	126	127
bit	128	129	130	131	132	133	134	135
bit	136	137	138	139	140	141	142	143
							=	
bit	144	145	146	147	148	149	150	151
	4	4	45:	45-	455	45-	155	4
bit	152	153	154	155	156	157	158	159
bit	160	161	162	163	164	165	166	167
211	.00		.52	. 50		. 30		
bit	168	169	170	171	172	173	174	175
							<u> </u>	
bit	176	177	178	179	180	181	182	183
	101	185	186	187	188	189	190	191
bit	184							