LED Controller Serial Communication

Control Command

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Chapter 1 Overview

1.1 Introduction

The LED controllers support serial port control. The users can send the command provided by this document to the LED controller to control it.

1.2 Terms and Abbreviations

Table 1-1 Terms and Abbreviations

Terms/Abbreviations	Description
Baud Rate	The speed of serial communication is measured in bps (bits per second).
CRC	Parity bit, which consists of 2 bytes.
CR	End character, 1 byte.

1.3 Protocol Overview

1.3.1 Message Format

The command sending party is called as the host and command receiving party is called as the slave. All commands uses the same format. Different commands use varied data length, command code, data and verification value.

Format of message sent by the host:

Sent Data Header	Data	Verification Value

Detailed format of message sent by the host:

Sent Data Header						Data		Verification Value
Packet ID	Data Length	Communication Address	Command Code	Version	Reserved Bit	Data Header	Data Content	Verification Bit
2 bytes	2 bytes	12 bytes	4 bytes	1 byte	3 bytes	4 bytes	N bytes	1 byte

Format of message returned from the slave:

Returned Data Header	Data	Verification Value

Detailed format of message returned from the slave:

Returned Data Header							Data		Verification Value
Packet ID	Data Length	Communication Address	Command Code	Return Status	Version	Reserved Bit	Data Header	Data Content	Verification Bit
2 bytes	2 bytes	12 bytes	4 bytes	2 bytes	1 byte	5 bytes	4 bytes	N bytes	1 byte

Command Component Description

- **Packet ID**: Used to identify protocol type. The data package ID of all commands in this document should be **0xa 0xbb**.
- **Data length**: The data length of the whole command, including the length of data header, the data length, and the length of verification value.

  For example, the data length of the power on command (0xaa 0xbb 0x00 0x21 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x03 0x10 0x00 0x00 0x00 0x00 0x08 0x10 0x00 0x01 0x00 0x00 0x00 0xb0) starts from 0xaa and ends with 0xb0, and the total length is 0x21.
- **Communication address**: Defines the address of the sender, and the start and end addresses of the receivers. One command supports controlling multiple devices at the same time.
- **Command code**: Used to distinguish different commands. Each command has a unique command code. For example, the code of the power on/off command is 0x00 0x00 0x00 0x03.
- **Version**: Used to distinguish between different versions of the same command. The version number in this document is V1.0 and the value of byVersion is 00010000B.
- **Return Status**: The sending party checks the return status to determine whether the command execution is successful or failed. If the command execution is failed, the cause of failure will be specified. The following codes shows the execution result.

Return Status	Meaning
0x0000	Correct
0x138c	The operation is not supported by the device.
0x139c	The feature code does not match.
0x139d	Incorrect total message length.
0x139e	Incorrect host address.
0x139f	Incorrect command version.
0x13a0	Incorrect data package length.
0x13a1	Incorrect data package version.
0x13a2	Incorrect verification code.
0x13a3	The signal source is not supported.
0x13a4	The device is offline.
0x13a5	The device operation is failed.

- **Verification Value**: Calculate the sum of all the data in the command except for the verification bit, and then use the low byte of the sum.

  For example, the verification value of the power on command (0xaa 0xbb 0x00 0x21 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x03 0x10 0x00 0x00 0x00 0x00 0x08 0x10 0x00 0x01 0x00 0x00 0x00 0xb0) uses 0xb0 as the verification value. The detailed calculation is as follows:

  1) Calculate the sum: 0xaa+0xbb+0x00+0x21+0x00+0x00+0x00+0x00+0x00+0x00+0xff+0xff+0x00+0x00+0x00+0x00+0x00+0x00+0x00+0x03+0x10+0x00+0x00+0x00+0x00+0x08+0x10+0x00+0x01+0x00+0x00+0x00x+0x0x0x+0x0x=0x3b0
  2) Use the low byte of the sum: 0xb0

1.3.2 Message Transmission

All data is transmitted in big-endian order (network order) during the transmission process.

1.3.3 Baud Rate

The baud Rate is 115200 bps.

Chapter 2 Command Description

2.1 Sleep Mode Control (Command Code 0x03)

2.1.1 Command Format

Command Line			Description for Hexadecimal Parameter Value
Sent Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0x03
	Version	1 byte	
	Reserved Bit	3 bytes	
Data	Data Header	4 bytes	
	Switch Control	1 byte	● 0x01: Make the LED display exit the sleep mode. ● 0x02: Make the LED display enter the sleep mode.
	Reserved bit	3 bytes	
Verification Value	Verification bit	1 byte	

2.1.2 Command Example

Send the command to make the LED display exit the sleep mode:

0xaa 0xbb 0x00 0x21 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0x03** 0x10 0x00 0x00 0x00 0x00 0x08 0x10 0x00 **0x01** 0x00 0x00 0x00 **0xb0**

Send the command to make the LED display enter the sleep mode:

0xaa 0xbb 0x00 0x21 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0x03** 0x10 0x00 0x00 0x00 0x00 0x08 0x10 0x00 **0x02** 0x00 0x00 0x00 **0xb1**

2.2 Get Brightness (Command Code 0x19)

2.2.1 Command Format

Sent Command Format

Command Line			Description for Hexadecimal Parameter Value
Sent Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0x19
	Version	1 byte	
	Reserved Bit	3 bytes	
Data	None	0 byte	
Verification Value	Verification Bit	1 byte	

Returned Command Format

Command Line			Description for Hexadecimal Parameter Value
Returned Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0x19
	Return Status	2 bytes	
	Version	1 byte	
	Reserved Bit	5 bytes	
Data	Data Header	4 bytes	
	Brightness Value	1 byte	Range: 0x01 to 0x64
	Reserved Bit	3 bytes	
Verification Value	Verification Bit	1 byte	

2.2.2 Command Example

Send the command to get brightness:

0xaa 0xbb 0x00 0x19 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0x19** 0x10 0x00 0x00 0x00 **0xa5**

Return the brightness value that is 50:

0xaa 0xbb 0x00 0x25 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0x19** 0x00 0x00 0x10 0x00 0x00 0x00 0x00 0x00 0x00 0x08 0x10 0x00 **0x32** 0x00 0x00 0x00 **0xfb**

2.3 Set Brightness (Command Code 0x1a)

2.3.1 Command Format

Sent Command Format

Command Line			Description for Hexadecimal Parameter Value
Sent Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0x1a
	Version	1 byte	
	Reserved Bit	3 bytes	
Data	Data Header	4 bytes	
	Brightness Value	1 byte	Range: 0x01 to 0x64
	Reserved Bit	3 bytes	
Verification Value	Verification Bit	1 byte	

2.3.2 Command Example

Send the command to set brightness value to 50:

0xaa 0xbb 0x00 0x21 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0x1a** 0x10 0x00 0x00 0x00 0x00 0x08 0x10 0x00 **0x32** 0x00 0x00 0x00 **0xf8**

2.4 Get LED Display Capability Set (Command Code 0x9f)

2.4.1 Command Format

Sent Command Format

Command Line			Description for Hexadecimal Parameter Value
Sent Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0x9f
	Version	1 byte	
	Reserved Bit	3 bytes	
Data	None	0 byte	
Verification Value	Verification Bit	1 byte	

Returned Command Format

Command Line			Description for Hexadecimal Parameter Value
Returned Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0x9f
	Return Status	2 bytes	
	Version	1 byte	
	Reserved Bit	5 bytes	
Data	Data Header	4 bytes	
	Supported Signal Source Type	4 bytes	• 0x00000000: Getting and configuring signal sources are not supported. • 0x00000001: Supports HDMI1. • 0x00000002: Supports HDMI2.

Command Line			Description for Hexadecimal Parameter Value
			• 0x00000004: Supports DVI1. • 0x00000008: Supports DVI2. • 0x00000010: Supports DVI3. • 0x00000020: Supports DVI4. • 0x00000040: Supports subtitle window. • 0x00000080: Supports picture/text window 1. • 0x00000100: Supports picture/text window 2. • 0x00000200: Supports DP. • 0x00000400: Supports VGA. • 0x00000800: Supports LVDS. • 0x00001000: Supports Android. • 0x00002000: Supports 5G. • 0x00004000: Supports auto signal source.
	Custom Min. Color Temperature	2 bytes	Range: 0x0 to 0xffff
	Custom Max. Color Temperature	2 bytes	Range: 0x0 to 0xffff
	Reserved Bit	32 bytes	
Verification Value	Verification Bit	1 byte	

Description about Supported Signal Source Types

If an LED controller supports multiple signal source types, the supported signal source types are the result of the bitwise OR operation of multiple signal source type values.

For example, if an LED controller supports HDMI1, HDMI2, Android, and auto signal source, then the supported signal source type is 0x00005003. The detailed bitwise OR operation: 0x00000001 | 0x00000002 | 0x00001000 | 0x00004000 = 0x00005003.

To check whether a single signal source type is supported, perform a bitwise AND operation between the supported signal source type in the command with the obtained single signal source type. If the result of the bitwise AND operation is a non-zero value, the signal source is valid; otherwise, it is invalid.

For example, the supported signal source type is 0x00005003, the HDMI2 signal source type is 0x00000002. The detailed bitwise AND operation: 0x00005003 & 0x00000002 = 0x00000002. The result is a non-zero value, so HDMI2 is supported.

2.4.2 Command Example

Send the command to get the LED display capability set:

0xaa 0xbb 0x00 0x19 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0x9f** 0x10 0x00 0x00 0x00 0x2b

Return the LED display capability set: The LED display supports HDMI1 signal source, uses 1 as the minimum color temperature value, and uses 196 as the maximum color temperature value.

0xaa 0xbb 0x00 0x49 0x00 0x00 0x00 0x00 0x00 0x00 xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0x9f** 0x00 0x00 0x10 0x00 0x00 0x00 0x00 0x00 0x00 0x2c 0x10 0x00 **0x00 0x00 0x00 0x01** 0x00 0x01 0x00 0xc4 0x00 … 0x00 **0x5d**

2.5 Get Current Signal Source Channel (Command Code 0x05)

2.5.1 Command Format

Sent Command Format

Command Line			Description for Hexadecimal Parameter Value
Sent Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0x05
	Version	1 byte	
	Reserved Bit	3 bytes	
Data	None	0 byte	
Verification Value	Verification Bit	1 byte	

Returned Command Format

Command Line			Description for Hexadecimal Parameter Value
Returned Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0x05
	Return Status	2 bytes	
	Version	1 byte	
	Reserved Bit	5 bytes	
Data	Data Header	4 bytes	
	Current Source Channel	1 byte	● 0x1: AV ● 0x2: VGA ● 0x3: HDMI ● 0x4: DVI ● 0x5:YpbPr ● 0x6: USB ● 0x7: IP ● 0x8: SDI ● 0x9: DP ● 0xa: Hdbase ● 0xb: TVI ● 0xc: BNC ● 0xd: Auto ● 0xe: CVI ● 0xf: AHD ● 0x10: CVBS ● 0x11: HDMI2 ● 0x12: DP2 ● 0x13: VGA2 ● 0x14: DVI2 ● 0x15: DVI3 ● 0x16:DVI4 ● 0x17: Subtile window

Command Line			Description for Hexadecimal Parameter Value
			● 0x18: Picture/text window 1 ● 0x19: Picture/text window 2 ● 0x1a: LVDS ● 0x1b: Android ● 0x1c: 5G
	Reserved Bit	3 bytes	
Verification Value	Verification Bit	1 byte	

2.5.2 Command Example

Send the command to get the current signal source channel:

0xaa 0xbb 0x00 0x19 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0x05** 0x10 0x00 0x00 0x00 0x91

Return the current signal source channel that is HDMI:

0xaa 0xbb 0x00 0x25 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0x05** 0x00 0x00 0x10 0x00 0x00 0x00 0x00 0x00 0x00 0x08 0x10 0x00 **0x03** 0x00 0x00 0x00 **0xb8**

2.6 Set Signal Source Channel (Command Code 0x04)

2.6.1 Command Format

Sent Command Format

Command Line			Description for Hexadecimal Parameter Value
Sent Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0x04
	Version	1 byte	
	Reserved Bit	3 bytes	

Command Line			Description for Hexadecimal Parameter Value
Data	Data Header	4 bytes	
	Signal Channel	1 byte	● 0x1: AV ● 0x2: VGA ● 0x3: HDMI ● 0x4: DVI ● 0x5:YpbPr ● 0x6: USB ● 0x7: IP ● 0x8: SDI ● 0x9: DP ● 0xa: Hdbase ● 0xb: TVI ● 0xc: BNC ● 0xd: Auto ● 0xe: CVI ● 0xf: AHD ● 0x10: CVBS ● 0x11: HDMI2 ● 0x12: DP2 ● 0x13: VGA2 ● 0x14: DVI2 ● 0x15: DVI3 ● 0x16:DVI4 ● 0x17: Subtitle window ● 0x18: Picture/text window 1 ● 0x19: Picture/text window 2 ● 0x1a: LVDS ● 0x1b: Android ● 0x1c: 5G
	Reserved Bit	3 bytes	
Verification Value	Verification Bit	1 byte	

2.6.2 Command Example

Send the command to set the signal source channel as HDMI:

0xaa 0xbb 0x00 0x21 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0x04** 0x10 0x00 0x00 0x00 0x00 0x08 0x10 0x00 **0x03** 0x00 0x00 0x00 **0xb3**

2.7 Get Audio Parameters (Command Code 0x46)

2.7.1 Command Format

Sent Command Format

Command Line			Description for Hexadecimal Parameter Value
Sent Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0x46
	Version	1 byte	
	Reserved Bit	3 bytes	
Data	None	0 byte	
Verification Value	Verification Bit	1 byte	

Returned Command Format

Command Line			Description for Hexadecimal Parameter Value
Returned Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0x46
	Return Status	2 bytes	

Command Line			Description for Hexadecimal Parameter Value
	Version	1 byte	
	Reserved Bit	5 bytes	
Data	Data Header	4 bytes	
	Audio Switch	1 byte	● 0x0: Turn on audio. ● 0x1: Turn off audio.
	Volume	1 byte	Range: 0x01 to 0x64
	Reserved Bit	34 bytes	
Verification Value	Verification Bit	1 byte	

2.7.2 Command Example

Send the command to get the audio parameters:

0xaa 0xbb 0x00 0x19 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0x46** 0x10 0x00 0x00 0x00 0xd2

Return the audio parameters: The audio is turned on and the volume is 64.

0xaa 0xbb 0x00 0x45 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0x46** 0x00 0x00 0x10 0x00 0x00 0x00 0x00 0x00 0x00 0x28 0x10 0x00 **0x00 0x40** 0x00 … 0x00 0x76

2.8 Set Audio Parameters (Command Code 0x45)

2.8.1 Command Format

Sent Command Format

Command Line			Description for Hexadecimal Parameter Value
Sent Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0x045

Command Line			Description for Hexadecimal Parameter Value
	Version	1 byte	
	Reserved Bit	3 bytes	
Data	Data Header	4 bytes	
	Audio Switch	1 byte	● 0x0: Turn on audio. ● 0x1: Turn off audio.
	Volume Size	1 byte	Range: 0x01 to 0x64
	Reserved Bit	34 bytes	
Verification Value	Verification Bit	1 byte	

2.8.2 Command Example

Send the command to turn off the audio and the volume is 90:

0xaa 0xbb 0x00 0x41 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0x45** 0x10 0x00 0x00 0x00 0x00 0x28 0x10 0x00 **0x01 0x5a** 0x00 … 0x00 0x8c

2.9 Get Scene List (Command Code 0xa0)

2.9.1 Command Format

Sent Command Format

Command Line			Description for Hexadecimal Parameter Value
Sent Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0xa0
	Version	1 byte	
	Reserved Bit	3-byte	
Data	None	0 bytes	

Command Line			Description for Hexadecimal Parameter Value
Verification Value	Verification Bit	1 byte	

Returned Command Format

Command Line			Description for Hexadecimal Parameter Value
Returned Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0xa0
	Return Status	2 bytes	
	Version	1 byte	
	Reserved Bit	5 bytes	
Data	Data Header	4 bytes	
	Scene 1 Value	1 byte	● 0x0: Invalid scene. ● 0x1: Valid scene.
	Scene 2 Value	1 byte	● 0x0: Invalid scene. ● 0x1: Valid scene.
	Scene 3 Value	1 byte	● 0x0: Invalid scene. ● 0x1: Valid scene.
	Scene 4 Value	1 byte	● 0x0: Invalid scene. ● 0x1: Valid scene.
	Scene 5 Value	1 byte	● 0x0: Invalid scene. ● 0x1: Valid scene.
	Scene 6 Value	1 byte	● 0x0: Invalid scene. ● 0x1: Valid scene.
	Scene 7 Value	1 byte	● 0x0: Invalid scene. ● 0x1: Valid scene.
	Scene 8 Value	1 byte	● 0x0: Invalid scene.

Command Line			Description for Hexadecimal Parameter Value
			● 0x1: Valid scene.
	Scene 9 Value	1 byte	● 0x0: Invalid scene. ● 0x1: Valid scene.
	Scene 10 Value	1 byte	● 0x0: Invalid scene. ● 0x1: Valid scene.
	Reserved Bit	10 bytes	
Verification Value	Verification Bit	1 byte	

2.9.2 Command Example

Send the command to get the scene list:

0xaa 0xbb 0x00 0x19 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0xa0** 0x10 0x00 0x00 0x00 0x2c

Return the scene list: The scenes 1 to 4 are valid and scenes 5 to 10 are invalid.

0xaa 0xbb 0x00 0x35 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0xa0** 0x00 0x00 0x10 0x00 0x00 0x00 0x00 0x00 0x00 0x18 0x10 0x00 **0x01 0x01 0x01 0x01 0x00 0x00 0x00 0x00 0x00 0x00** 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 **0x74**

2.10 Get Scene Name List (Command Code 0xa1)

2.10.1 Command Format

Sent Command Format

Command Line			Description for Hexadecimal Parameter Value
Sent Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0xa1
	Version	1 byte	

Command Line			Description for Hexadecimal Parameter Value
	Reserved Bit	3 bytes	
Data	None	0 bytes	
Verification Value	Verification Bit	1 byte	

Returned Command Format

Command Line			Description for Hexadecimal Parameter Value
Returned Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0xa1
	Return Status	2 bytes	
	Version	1 byte	
	Reserved Bit	5 bytes	
Data	Data Header	4 bytes	
	Scene 1 Name	60 bytes	
	Scene 2 Name	60 bytes	
	Scene 3 Name	60 bytes	
	Scene 4 Name	60 bytes	
	Scene 5 Name	60 bytes	
	Scene 6 Name	60 bytes	
	Scene 7 Name	60 bytes	
	Scene 8 Name	60 bytes	
	Scene 9 Name	60 bytes	
	Scene 10 Name	60 bytes	
	Reserved Bit	364 bytes	
Verification	Verification Bit	1 byte	

Command Line			Description for Hexadecimal Parameter Value
Value			

2.10.2 Command Example

Send the command to get the scene name list:

0xaa 0xbb 0x00 0x19 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0xa1** 0x10 0x00 0x00 0x00 0x2d

Return the scene name list:

0xaa 0xbb 0x02 0x25 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0xa1** 0x00 0x00 0x10 0x00 0x00 0x00 0x00 0x00 0x02 0x08 0x10 0x00 **0x74 0x65 0x73 0x74 0x31 0x00** … … …… … … … … … 0x00 0x00 0x00 0x00 **0x3d**

2.11 Get Current Scene ID (Command Code 0x0e)

2.11.1 Command Format

Sent Command Format

Command Line			Parameter Value Description (Hexadecimal)
Sent Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0x0e
	Version	1 byte	
	Reserved Bit	3 bytes	
Data	None	0 byte	
Verification Value	Verification Bit	1 byte	

Returned Command Format

Command Line			Parameter Value Description (Hexadecimal)
Returned Data Header	Packet ID	2 bytes	0xa 0xbb
	Data Length	2 bytes	
	Communication Address	12 bytes	
	Command Code	4 bytes	0x00 0x00 0x00 0x0e
	Return Status	2 bytes	
	Version	1 byte	
	Reserved Bit	5 bytes	
Data	Data Header	4 bytes	
	Scene ID Value	1 byte	
	Reserved Bit	3 bytes	
Verification Value	Verification Bit	1 byte	

2.11.2 Command Example

Send the command to get the current scene ID: The current scene ID is 2.

0xaa 0xbb 0x00 0x21 0x00 0x00 0x00 0x00 0x00 0x00 0xff 0xff 0x00 0x00 0x00 0x00 **0x00 0x00 0x00 0x0d** 0x10 0x00 0x00 0x00 0x00 0x08 0x10 0x00 **0x02** 0x00 0x00 0x00 **0xbb**


See Far, Go Further