

INTREND ARC129

Network central control protocol V1.1

Version	Modification time	Author	Revise the main content
V1.0	2025-07-30	Mgh	Create a file
V1.1	2025-10-21	mgh	Add feedback path control and feedback path control

1、 Brief Description

This agreement specifies the operation of the device by sending specific parameters through the network port:

Agreement	UDP
Port number	1268

2、 Scope of application

Applicable to all products of the company that are equipped with network port control

3、 Protocol message

3.1Data format

All data values in the protocol are represented by value transfer and not by ASCII. For instance, a piece of data with the value test123 occupies 10 bytes. In the protocol, it is designed to transmit data of 0x74, 0x65, 0x73, 0x74, 0x31, 0x32, 0x33, 0x00, 0x00, and the last three 0x00 are padding. At this point, the ASCII code corresponding to the hexadecimal command is not compatible. The format of the issued agreement is inconsistent with the format of the reply upload agreement.

3.2Issue the agreement

Item	Protocol Identifier	Function code	Data length	Data
Byte count	1	1	1	n
Byte offset	0	1	2	3
Default value	0x03			

Field content description:

Protocol Identifier: 0x03 Set the corresponding functions

Function code: For details, please refer to "Function Code Definition."

Data length: The length of the data area, with a minimum value of 0.

Data: Each different function code message can add its own unique data parameters.

3.3Response Agreement:

Item	Protocol Identifier	The function code of the response	Result code
Byte count	1	1	1
Byte offset	0	1	2
Default value	0x03	n	

Field content description:

Protocol Identifier: 0x03

The responded function code: The function code corresponding to the previously issued request protocol

Result code: Success 1, Failure 0

3.4Function code:

Functional category	Functional subcategories	Function code	Corresponding data description
Silent	Echo pathway	0xE8	Echo pathway switch
Silent	Feedback channel	0xEC	Feedback path switch
Volume step	Feedback gain	0xE9	The corresponding data is 1 byte, with 1 in and 0 back.
Restore to default	Restore to default	0xEA	

4、Function Settings

4.1 Mute the echo path

Message sending protocol format:

Item	Protocol Identifier	Function code	Data length	Silent or not
Byte count	1	1	1	1
Byte offset	0	1	2	3
Default value	0x03	0xE8	0x01	

Case:

Echo pathway control:

Issued: 0x 03 E8 01 00 (Close)

Issued: 0x 03 E8 01 01 (Start)

Successful response: 0x 03 E8 01

Failed response: 0x 03 E8 00

Feedback path control:

Issued: 0x 03 EC 01 00 (Close)

Issued: 0x 03 EC 01 01 (Start)

Successful response: 0x 03 EC 01

Failed response: 0x 03 EC 00

4.2 Set the volume step

Message sending protocol format:

Item	Protocol Identifier	Function code	Data length	Volume step up or step down
Byte count	1	1	1	1
Byte offset	0	1	2	3
Default value	0x03	0xE9	0x01	

Case:

Amplification step 1db:

Issued: 0x 03 E9 01 01

Successful response: 0x 03 E9 01

Failed response: 0x 03 E9 00

Step back 1db for sound amplification:

Issued: 0x 03 E9 01 00

Successful response: 0x 03 E9 01

Failed response: 0x 03 E9 00

4.3 Restore to default

Message sending protocol format:

Item	Protocol Identifier	Function code	Data length	Default data
Byte count	1	1	1	1
Byte offset	0	1	2	3
Default value	0x03	0xEA	0x01	0x00

Case:

Restore to default

Issued: 0x 03 EA 01 00

Successful response: 0x 03 EA 01

Failed response: 0x 03 EA 00