# Reach Digital Array Microphone System Datasheet
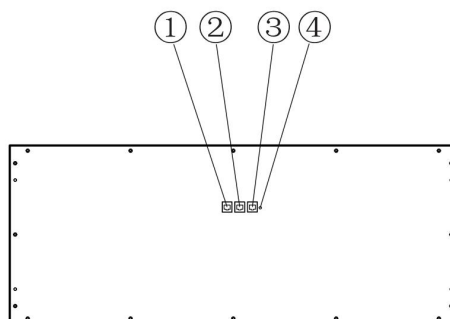
## (Model: TAP7110)



## Features:

☐ Integrated design, beautiful shape and simple generous.

☐ Sound source tracking, built-in beam forming algorithm, with advanced sound source automatic tracking function. Whether in a classroom, conference room or large lecture hall, from the first row to the last, your voice can be heard clearly in any corner for a pleasant and clear listening experience.

☐ Beamforming technology to reduce noise outside the classroom or conference room that would interfere with normal sound capture and improve speech intelligibility.

☐ Easy to install, pick up a wide range of sound, to solve the traditional hanging microphone / ball microphone wiring cumbersome problem.

☐ Highly integrated, microphone front-end built-in 3A algorithm, with a set of speakers can realize the interactive function of sound pickup.

## Array Microphone Specifications:

| | |
|---|---|
| Product name | Digital Array Microphone System |
| Model | TAP7110 |
| Microphones number | Built-in 11 mics to form ring array microphone |
| Microphone type | Electret condenser microphone |
| Frequency response | 100Hz-16KHz |
| Sensitivity | 0dBV/Pa (988Mv/Pa) |
| Signal noise ratio | 83 dB(A) |
| Maximum Sound Pressure Level | 104 dB SPL |
| Dynamic range | 93Db (A) |
| Power Input | USB DC 24V |
| Weight | 2Kg |
| Dimensions | 600mm×300mm×29.5mm |

# Array Microphone Connecting Ports:

① ②  ③④

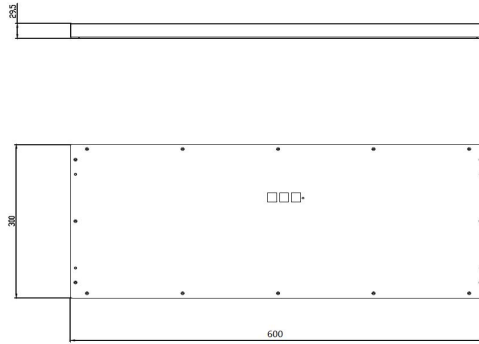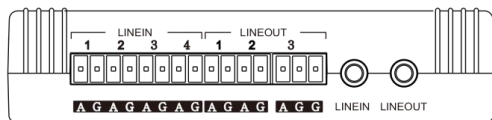| No. | Connector | Statement |
|---|---|---|
| 1 | RJ45① | 1. Power in and Upstream interface to supply power to the Array Microphone (DC 24V) and upload audio data<br>2. Connect the Audio Processor Of Array Microphone through CAT6 network cable when using single Array Microphone; Connect the upper level RJ45② port through CAT6 network cable when cascading multiple Array Microphone |
| 2 | RJ45② | 1. Downstream interface, power supply for subordinate Array Microphone, receive subordinate audio data<br>2. When using single Array Microphone, this port does not need to be connected; when cascading multiple Array Microphone, connect to the lower level RJ45① through CAT6 network cable |
| 3 | RJ45③ | 1. Network interface for configuring device parameters<br>2. Subordinate Array Microphone ACM711 do not have RJ45③ port |
| 4 | Reset | Reset button, long press 3S, the device restores the factory configuration |

**Note:**

1. One Main-Array Microphone, supporting up to 3 Sub-Array Microphone ACM711 cascade.

2. CAT6 network cable should be used between the two devices, and the cable length should not exceed 10m, to ensure the communication quality and power supply stability.
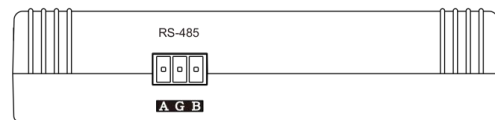
# Array Microphone Structure Size:

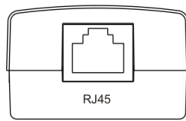Length x Width x High = 600mm x 300mm x 29.5mm
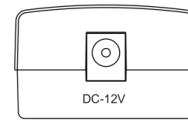
# Audio Processor Of The Array Microphone



A



B



C



D

| No. | Connector | Statement |
|---|---|---|
| 1 | LINE IN1 | Remote input, A: Signal; G: Ground |
| 2 | LINE IN2 | Computer input, A: Signal; G: Ground |
| 3 | LINE IN3 | Wireless microphone input, A: Signal; G: Ground |
| 4 | LINE IN4 | Musical instrument input, A: Signal; G: Ground |
| 5 | LINE OUT1 | Remote output, A: Signal; G: Ground |
| 6 | LINE OUT2 | Speaker output, A: Signal; G: Ground |
| 7 | LINE OUT3 | Record Out, A: Signal; G: Ground; G: Ground |
| 8 | LINE IN | Consistent with LINE IN1 definition |
| 9 | LINE OUT | Consistent with LINE OUT1 definition |
| 10 | RS-485 | A: RS-485+; G: ground; B: RS-485- |
| 11 | RJ45 | Digital audio transmission interface |
| 12 | DC-24V | DC 24V power input interface |

# System Connection



Power Adapter

Network Switch

Audio Processor

PC

Main Array MIC

Sub Array MIC

Sub Array MIC