

## JO Series with Mobile App Network Summary

### Introduction

The JO-1MDW requires an internet connection for its mobile app to function. The following document will list out network communications used in the JO mobile app.

**Mobile App:** Intercom App Type-B

**Master Station:** JO-1MDW

**Expansion Master Station:** JO-1FD

**Video Door Station:** JO-DA, JO-DV, or JO-DVF

### Installation and Network Discovery

The JO-1MDW master station connects to a local area network via WiFi. The JO mobile app can receive or establish communication while connected to a cellular or wireless network with internet access. During initial setup, the network must be configured so that the default gateway can respond to ping requests from the JO-1MDW.

**IPv4 Address:** 192.168.1.160 (10.0.0.0/8 , 172.16.0.0/12, 192.168.0.0/16)

**IPv4 Subnet Mask:** 255.255.255.0 (128.0.0.0-255.255.255.255)

**IPv4 Default Gateway:** (1.0.0.0-223.255.255.255)

**DNS Server:** *DNS information is required for domain name resolution.*

**Supported Wireless Frequency:** 2.4 GHz (5.0 GHz and dual band not supported)

**Supported Wireless Protocols:** 802.11b/g/n

**Supported Encryption Protocols:** None, WEP, WPA-PSK (TKIP/AES), WPA2-PSK(AES)

### Ports and Protocols

Protocol	Port	Function	Destination
HTTPS	443	App	api-r1.jo.aiphone-app.net api-r3.jo.aiphone-app.net
MQTT	8883	Cloud server access	*.iot.us-east-1.amazonaws.com
SRTP/STUN	10000-20000	Audio and video	*.compute-1.amazonaws.com
NTP	123	Time sync	ntp.jo.aiphone-app.net
IGMP**	Broadcast	App registration	



#### App Registration on Managed Networks

IGMP and multicast are temporarily utilized when registering mobile devices to the JO-1MDW. For this, the JO-1MDW and mobile devices must be in the same broadcast domain during this short process. It is possible to connect the JO-1MDW and the mobile devices to the same router in a bench scenario, then deploy after registration.

#### Notes:

\* In the destination field represents a wildcard character.

\*\*IGMP is only used during the app registration process during installation.

For more details about the features and information above, please contact Technical Support.

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