

JO Series with Mobile App Network Summary**Compatible Stations****Mobile App:** "Intercom App Type-B"**Master Station:** JO-1MDW**Expansion Master Station:** JO-1FD**Video Door Stations:** JO-DA, JO-DV, and JO-DVF**Installation and Network Discovery****JO-1MDW Network Information and Connections**

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.

IPv4 Address: DHCP**Multicast address (for automatic registration):** 239.197.40.41**Supported Wireless Frequency:** 2.4 GHz**Supported Wireless Protocols:** 802.11b/g/n**Supported Wireless Encryption:** NONE/WEP/WPA-PSK(TKIP/AES)/WPA2-PSK(AES)**App Registration on Managed Networks**

IGMP and **multicast** are used to register the JO mobile app automatically with the JO-1MDW. During this short process, the JO-1MDW and mobile devices must be in the same broadcast domain. Multiple subnets may exist in the same broadcast domain, but broadcasts between routers may not be possible without being configured to do so.

A manual registration option is also available that uses unicast instead of multicast to initiate the registration process. This is selected on the JO mobile app.

It is possible to connect the JO-1MDW and the mobile devices to the same router or a mobile hotspot for the registration process, then deploy after registration.

Ports and Protocols

Protocol	Port	Function
TCP	443	Web access
TCP	8883	Cloud server access
SRTP	10000-20000	Audio and Video
UDP	51711	App Registration (from app to JO-1MDW)
UDP	51712	App Registration (from JO-1MDW to app)
TCP	52712	App Registration
IGMP	Broadcast	Automatic App Registration (optional)