

# Shure Device IP Ports and Protocols



The following list applies to:

- MXA310
- MXA710
- MXA910
- ANI4IN
- ANI4OUT
- ANIUSB-MATRIX
- ANI22
- P300
- MXN5W-C
- MXA Network Mute Button (Doesn't use any Dante ports)
- MXCW

## Shure Control

Port	TCP/UDP	Protocol	Description	Factory Default
21	tcp	FTP	Required for firmware updates (otherwise closed)	Closed
22	tcp	SSH	Secure Shell Interface	Closed
23	tcp	Telnet	Not supported	Closed
68	udp	DHCP	Dynamic Host Configuration Protocol	Open
80*	tcp	HTTP	Required to launch embedded web server	Open
443	tcp	HTTPS	Not supported	Closed
161	tcp	SNMP	Not supported	Closed
162	tcp	SNMP	Not supported	Closed
2202	tcp	ASCII	Required for 3rd party control strings	Open
5353	udp	mDNS <sup>†</sup>	Required for device discovery	Open
5568	udp	SDT <sup>†</sup>	Required for inter-device communication	Open
8023	tcp	Telnet	Debug console interface	Closed
8180	tcp	HTML	Required for web application	Open
8427	udp	Multicast SLP <sup>†</sup>	Required for inter-device communication	Open
64000	tcp	Telnet	Required for Shure firmware update	Open

## Dante Audio & Controller

Port	TCP/UDP	Protocol	Description
162	udp	SNMP	Used by Dante
[319-320]*	udp	PTP <sup>†</sup>	Dante clocking
2203	udp	Custom	Required for packet bridge
4321, 14336-14600	udp	Dante	Dante audio
[4440, 4444, 4455]*	udp	Dante	Dante audio routing
5353	udp	mDNS <sup>†</sup>	Used by Dante
[8700-8706, 8800]*	udp	Dante	Dante Control and Monitoring
8751	udp	Dante	Dante Controller
16000-65536	udp	Dante	Used by Dante

\*These ports must be open on the PC or control system to access the device through a firewall.

†These protocols require multicast. Ensure multicast has been correctly configured for your network.

## IntelliMix® Room IP Ports and Protocols

Protocol	Port	Inbound or outbound?	Description	Applicable .exe
UDP	319, 320	Both	PTP clocking	Shure PTP.exe
UDP	34441	Both	ARCP (audio routing)	apec3.exe
UDP	34455	Both	DBCP (audio routing)	apec3.exe
UDP	39900	Both	CMCP (ConMon)	common_server.exe
UDP	5353	Both	mDNS (used by mDNSResponder.exe)	Shure mDNSResponder.exe
UDP	38801-38810	Both	ConMon channels (unicast)	Shure Common_Server.exe
UDP	8702, 8703, 8708	Both	ConMon channels (multicast)	Shure Common_Server.exe
UDP	34336-34591	Both	Audio channels	apec3.exe
UDP	5568	Both	Session Data Transport (SDT), part of ACN	Shure_IntelliMix_Room.exe
UDP	8427	Both	Shure SLP (discovery) (multicast)	Shure_IntelliMix_Room.exe
TCP	443	Outbound	HTTPS	Shure_IntelliMix_Room.exe, Shure. SoftwareUpdate.exe

## AXT400, AXT600, AXT610, AXT630/631, AXT900, P10T, ULXD4, ULXD4D, ULXD4Q, AD4D, AD4Q, AD610, SBRC, SBC220, SBC240, SBC840, SBC840M Ports and Protocols

### Shure Control

Port	TCP/UDP	Protocol	Multicast Group	Description
21	TCP	FTP	N/A (Unicast)	Required for firmware updates, Data exchange
23	TCP	Telnet	N/A (Unicast)	Standard Console interface (only open in debug modes)
68	DHCP	DHCP	Broadcast	IP Addressing
1900	UDP	SSDP	239.255.255.250	Service Discovery
2202	TCP	Raw TCP Socket	N/A (Unicast)	AMX/Crestron Control Strings
8023	TCP	Telnet	N/A (Unicast)	Debug console interface
64000	TCP	Raw Socket	N/A (Unicast)	Shure firmware update control
5568	UDP	SDT	N/A (Unicast)	Required for device control
8427	UDP	Multicast SLP	239.255.254.253	Required for service discovery

## ULXD4D, ULXD4Q, AD4D, AD4Q

### Dante Card

Port	TCP/UDP	Protocol	Multicast Group	Description
68	UDP	DHCP	Broadcast	IP Addressing
162	UDP	SNMP	N/A (Unicast)	Used by Dante
319-320	UDP	PTP	224.0.1.129	Used by Dante Clocking
1900	UDP	SSDP	239.255.255.250	Service Discovery
4321	UDP	Dante	239.255.0.0/16	Dante Multicast Streams
4440-4455	UDP	Dante		Used by Dante
5004	UDP	AES67	239.69.0.0/16	AES67 Streams
5353	UDP	mDNS	224.0.0.251	Multicast DNS/Bonjour
8700-8706	UDP	Dante	223.0.0.233	Dante Control
9875	UDP	SAP	239.255.255.255	SAP for AES67
14336-14591	UDP	Dante	N/A (Unicast)	Dante Unicast Streams
16000-65536	UDP	Dante		Used by Date

## UR4/ MW4

Port	TCP/UDP	Protocol	Description
68	UDP	DHCP	IP Addressing
2200-2201	UDP	SNET	Shure protocol for configuration
2202	UDP	Raw Socket	Required for 3rd party control strings