

## ShareLink Network Ports and Licenses

This guide contains information about network port requirements and third-party software packages used for Extron ShareLink Series products.

### Firewall Traversal

In order for the ShareLink gateway to function correctly with the ShareLink applications, it is recommended that the following firewall rules be used to allow traffic to pass. The table below details the ports and their functions.

Port	Type	Direction	Function	Open	Notes
67 68	UDP	Both	DHCP	Optional	These ports remain open in the ShareLink even when Gatekeeper <b>All Block</b> is enabled.
80	TCP	Both	Web services	Required	This port is used to access the embedded webpages.
137	TCP/UDP	Both	NetBIOS	Optional	This port is used by the NetBIOS naming service.
138	TCP/UDP	Both	NetBIOS	Optional	This port is used by the NetBIOS naming service.
161	UDP	Both	SNMP	Optional	This port is used for SNMP management.
389 443 3268	TCP	Both	Command	Required	For best performance, it is recommended that ports 389, 443, and 3268 be open. At minimum, one of the three ports needs to be open for the gateway to function properly. If one port is open and that port is used by another application, the ShareLink does not function properly.
445 515 8080	TCP	Both	Data	Required	These ports are used for screen data.
1041	TCP	Outbound	Video	Required	This port is used for video data.
1047 1048 1049	UDP	Inbound	Discovery	Optional	These ports are used for discovery of the gateway. If closed, the discovery process could be impacted. These ports remain open in the ShareLink even when GateKeeper <b>All Block</b> is enabled.
1688	TCP	Both	Audio	Recommended	This port is used for audio data.
1689	TCP	Both	Debug	Optional	This port is used for the debugging log.
1900 50000 - 65000	UDP	Both	DLNA	Required	These ports are used for streaming video data to the ShareLink.
2869 49152 49153	TCP	Both	DLNA	Required	These ports are used for streaming video data to the ShareLink.
3689	TCP	Both	Audio	Required	This port is used by Digital Audio Access Protocol for iOS mirroring audio sharing.
5353	UDP	Both	Discovery	Required	This port is used by Bonjour/Avahi network discovery for iOS mirroring discovery.
19996	TCP	Both	Command	Required	This port is required for Moderator control.
25005	TCP	Both	Discovery	Required	This port is used by Avahi-daemon for iOS mirroring discovery.
31865	TCP	Both	Data	Optional	This port is used by Android mobile devices.
42891 42892	TCP	Both	Update utility	Required	These ports are used for batch update of firmware.

## License Information

The following tables list the licensed third-party software packages used by ShareLink Series products.

**NOTE:** Licensed third-party software packages are subject to change without notice.

### ShareLink 250 Series Embedded System

Package	License	Version	Package	License	Version
busybox	GPL 2.0	1.18.4	Net-SNMP	BSD	5.7.2
lighttpd	BSD	1.4.37	Openssl	GPL	1.0.2d
bridge	GPL	1.18.4	DBus	GPLv2	1.6.8
gcc	LGPL	4.5.1	nmbd	GPL	2.2.12
wireless_tools	GPL 2.0	29	Mini-XML	GPLv2	2.9
iptables	GPL	1.4.4	udhcp	GPL	0.9.9
Qt	LGPL	4.7.4	Linux Kernel	GPLv2	2.6.32

### ShareLink for OS X/Windows Software

Package	License	Version
MediaInfo	LGPL	0.7.7.6
GNU libintl library	LGPL	0.11.2.0
GNU libiconv library	LGPL	1.9.0.0
libcurl	MIT/X derivate	None
Zlib	Zlib	1.2.3.2027
USB/IP	GNU GPL v2	1.0.0
SNMP++	BSD	3.2
Intel software for UPnP technologies		1.0.2777
soundflower	GNU GPL v2	1.5.2

### MirrorOp for Extron ShareLink (iOS)

Package	License	Version
FMDB	MIT License	2.1
Boost	Boost Software License	1_34_1
FFmpeg	LGPL	0.10.4

### MirrorOp for Extron ShareLink (Android)

Package	License	Version
turbo/IJG	BSD-style	1.2.1
FFmpeg	LGPL	0.10.4
Boost	Boost Software License	1_34_1

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