

EShare Network Requirements

1. Network Ports used by EShare

This info can be useful for an advanced setups, enterprise networks, or troubleshooting.

EShare on your network use the following ports.

Port	Type	Service or Protocol	Used By
51010-51060	TCP	EShare Proprietary	EShare, AirPlay
8121, 57395, 8080, 52025, 8600	TCP	EShare Proprietary	EShare
48689	UDP	Device Discovery	EShare
5353	UDP	Multicast DNS (MDNS)	AirPlay, Bonjour
10000-65535	UDP	DTLS Destination: DNS: *.casts.app IPV4: 3.124.195.37 43.135.179.205 54.169.2.51 64.64.232.232 119.28.92.194 106.55.235.101	WebCast
80/443	TCP	Hypertext Transfer Protocol (HTTP, HTTPS) Destination: casts.app gw.casts.app h1.ee-share.com	WebCast
8008, 8009	TCP	GoogleCast Proprietary	ChromeCast
1900	UDP	Simple Service Discovery Protocol (SSDP)	Bonjour

2. Bandwidth Requirements

2.1 Mirroring (from Laptop or Phone to Large Display)

Maximum bitrate can be as high as 30 Mbps, but average bitrates will be significantly lower. To get a reliable user experience, it is recommended to connect the large display using Ethernet and the laptop/phone using 5GHz Wi-Fi band. We recommend reserving a steady 30Mbps local traffic bandwidth for each screen mirroring.

2.2 TV Mirror and Display Group

The average bitrates of each TV Mirror or Display Group connection are 4 Mbps, the bandwidth should be reserved accordingly. For example, in case there are 40 Pads or Laptops in the classroom using TV Mirror, it requires $40 * 4\text{Mbps} = 160\text{Mbps}$ local traffic bandwidth.

2.3 WebCast

The average bitrates of each WebCast connection are 4~5 Mbps. We recommend reserving a steady 5Mbps bandwidth for each WebCast Mirroring.