ViewBoard®
Network Requirement
**Introduction**

These notes will introduce the network requirements for ViewBoard®’s preloaded software and help IT administrators setup ViewBoard® products in their IT infrastructure.

Ensure the wireless infrastructure supports broadcast service and is turned on. To get a stable transmission, it is strongly recommended to have ViewBoard® connected via an Ethernet cable, and client devices on a 5GHz Wi-Fi band.

**Over-The-Air (OTA) service**

ViewBoard® automatically searches for firmware updates whenever connected to the Internet. With just one click or every time the ViewBoard is powered off, users can update their version of ViewBoard® firmware.

**Network information**

- Server FQDN Name: https://ifp-ota.s3.amazonaws.com
- Server Port: TCP443

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**OTA Service**

A dual band wireless access point (5G) is preferred. Connect to in-room wireless access point via Ethernet Cable. Viewsonic OTA server.

- **About Device**
  - System updates

  After receiving the OTA (Over The Air) notice, tap Settings → About → Device → System updates to download new image.

- **System Update**
  - After downloading, the device will automatically upgrade and reboot.
Air Class

Display quiz questions on ViewBoard® and allow up to 30 mobile users to submit answers remotely. Whether administering single or multiple-choice questions, ViewBoard® will record the results of each device being used.

Network information
- PC (Windows/Mac/Chromebook) and tablet/mobile (iOS/Android) devices, as well as ViewBoard®, need to be linked to the same LAN network subnet.
- Ports: TCP 8080

Air Class

A dual band wireless access point (5G) is preferred

Connect to in-room wireless access point via Ethernet Cable

Android phone/tablet: scan QR Code to enter Air Class

Other devices: Connect to the same network (Local Area Network) and enter the URL http://(enter your URL here):8080 to enter Air Class
vCastReceiver & vCastSender Service

Working with ViewBoard® Cast software, the vCastReceiver app, will allow ViewBoard® to receive vCastSender laptop screens (Windows/Mac/Chrome) and mobile (iOS/Android) users’ screens, photos, videos, annotations, and camera(s). It is also compatible with Apple AirPlay®.

Network information
- ViewBoard® Cast software, laptops, and mobile devices can connect to both the same subnet and across the subnet network.
- Please enter the on-screen PIN-code to connect to the ViewBoard.
• Ports:
  - TCP 56789, 25123, 8121 & 8000
  - UDP 48689, 25123
• Port and DNS for activation:
  - Port: 8001
  - DNS: h1.ee-share.com

**vCastReceiver**

A dual band wireless access point (5G) is preferred

Connect to in-room wireless access point via Ethernet Cable

Connect to the same network (Local Area Network), select 5G mode for optimal casting
Airplay Service

Please ensure that DNS is enabled on the network/access point/wireless controller.

Network information

- How to verify Airplay is broadcasting:
  1. Ensure that your iOS device and ViewBoard® are connected to the same subnet network.
  2. Open **Control Center** and touch **Airplay Mirroring** on an iOS device, e.g. iPhone/iPad.
  3. You should see a device prefixed with "Cast-xxxx".
  4. If "Cast-xxxx" is showing then this confirms that the vCastReceiver is broadcasting Airplay services.
  5. Click on the broadcasted "Cast-xxxx" device to mirror your iOS device to ViewBoard®.

AirPlay

A dual band wireless access point (5G) is preferred

Connect to in-room wireless access point via Ethernet Cable

Note:
1. Connect to the same network (Local Area Network), select 5G mode for optimal casting
2. ViewBoard® Cast will stay up to date with the latest version of AirPlay for ongoing compatibility
Chromecast Service

ViewBoard® Cast software supports native Chromecast screen sharing via the Chrome browser casting respectively with the Chromecast feature enabled. Please ensure that mDNS is enabled on the network/access point/wireless controller (where applicable).

Network information

• Ports:
  - TCP 8008 & 8009
  - UDP 5353 (mDNS to broadcast CCast)

• How to verify Chromecast is broadcasting:
  1. Ensure that your Chromebook and ViewBoard® are connected to the same subnet network.
  2. It is recommended to use Wi-Fi: 802.11n 5GHz.
     **Note:** See 5 GHz channel for a table on non-DFS channels in your country. In the USA, those channels are 36-48 and 149-165.
  3. Bandwidth: At least 2~5 Mbps per user in a typical deployment. Latency should be less than 100ms when ping Google’s public DNS server at 8.8.8.8 for HD video streaming preferably >5Mbps is required.
  4. Access points:
     i. For small deployments of under 30 devices, consumer-grade networking equipment is sufficient.
     ii. For deployments greater than 30 devices or involving multiple rooms, enterprise-grade, centrally managed networking equipment is recommended.

**Chromecast**

A dual band wireless access point (5G) is preferred

Connect to in-room wireless access point via Ethernet Cable

Connect to the same network (Local Area Network), select 5G mode for optimal casting