# NETWORK AND POWER REQUIREMENTS

## POWER

- All devices in the Digital Signage Environment need to be on 24/7 power lines, also the switches and other network equipment!

## NETWORK

Below must be requested from GNETWORK (unless this is already implemented in the country/store)

- If the VLAN168 is installed in country/store for a local solution, then make sure that DHCP is enabled

  - and **that the DNS is updated in the DHCP scope**

- A maximum of 65000 devices can be connected on this VLAN.

- All incoming network traffic can be blocked, all traffic is initiated by the player

- We will use one network connection per

- The connection network speed must be equal or exceed:

    - LAN = 100Mb MAX Cable length to next Network device 70m / 230feet
    - Wi-Fi = 10Mb

- Stores need to make sure that LAN ports and/or Wi-Fi for our players are configured to use VLAN168. If VLAN168 isn't configured, please ask GNETWORK to configure.

    - DHCP Enabled for the specific VLAN

- The ZetaDisplay player needs the following ports to be open and ready on VLAN168 (according to Digital Signage CC):

| Port | IP | Function |
|---|---|---|
| 8181(tcp) | secure.zetadisplay.com | Interact with ZetaServer |
| 80(tcp/ip and udp) | *.gauddi.com | Player software updates |
| 80(tcp) | 137.116.197.29 70.37.81.153 *.zetadisplay.com | Time sync from Samsung server Interact with ZetaServer |
| 80 (http/https) | 20.187.78.233(http://time.samsungcloudsolution.net/) *.microsoft.com *.core.windows.net *.sys.pronto.no | Time sync from Samsung Server Interact with Microsoft Microsoft .Net core |
| 7001-7002(tcp) | samsungrm.zetadisplay.com | Remote management for the Samsung Tizen monitors |
| 53(udp) | DNS Server IPs | Resolving DNS server |
| 443(tcp/ip and udp) | *.zetadisplay.com *.samsungcloudsolution.com *.gauddi.com | Interact with ZetaServer Connection test for Samsung Tizen monitors Player Software updates |
| 443 ( TLS) | 20.187.78.233 http://time.samsungcloudsolution.net/ | Time Server Samsung |
| 443 (http/https) | 65.52.161.94 (time.samsungcloudsolution.com) *.core.windows.net *.sys.prontotv.no | Time sync from Samsung Server Microsoft .Net core |
| 1337-1359(tcp/udp) 7070(tcp) | secure4.zetadisplay.com | Port-range used by debug/diagnostic-tools |
| 123 (udp) | *.ntp.org | Timesync from Network Time Protocol |

ZetaDisplay is built on a profound understanding of human behavior in decision making situations. We focus on the physical store and office environments by delivering Digital Signage solutions for the right audience at the right time and place. www.zetadisplay.com

**THINKING BEYOND THE SCREEN™**