

INTRODUCTION

The xDAS and xDas Ambient Digitex Sentry system is produced in two basic variants: a variant for Permanent installation (with xPlover Premium) or a variant for Portable Measurements (with xPlover Ambient). No matter the variant, one basic rule applies to all: end users should always use the system in a separate network (wireless or Ethernet) in order to maximize the data throughput of the network and avoid interference from other devices. The basic difference between the two variants of the Sentry system is that the portable variant is equipped with a router, whereas the Permanent variant is not. This means that for the purposes of creating a separate network for the Permanent variant, we need to use a separate switch or router (not delivered by Digitex by default).

NETWORK CONFIGURATION FOR XDAS

The xPlover Premium/xPlover Ambient device is equipped with two Ethernet ports labelled ETH1 and ETH2. The ETH1 port is always reserved for communication with the xWave units and has a static IP configuration. The port is always preconfigured with some static IP address, which is usually in the following format: 10.10.10.10. On the other side, all delivered xWave units are also configured with a static IP address, usually in the format 10.10.10.11 for the first xWave unit, then 10.10.10.12 for the second, etc. By simply connecting all devices (xPlover and xWave) to a switch, we have the communication network of the system already established.

XDAS SYSTEM READY TO BE USED WHEN

- The xPlover unit is connected to GPS, and the Sync indicator is flashing blue - Locked GPS. For more information, consult the documentation.
- In Voyager, you see that all devices are streaming, and their settings are as expected. You can see this most simply in Voyager Devices->Info. For more information, consult the documentation. If the devices are expected to have GPS, make sure they are all in GPS-LOCK status.
- Voyager log is error-free.
- Make test recordings: Trigger, Manual, Ring Buffer. Make sure the data is as expected (see the documentation for more details).

XDAS AMBIENT SYSTEM READY TO BE USED WHEN

- The xPlover-Ambient unit is connected to GPS, and the Sync indicator is flashing blue - Locked GPS. (For more information, consult the documentation)
- Turn on all the devices you need and check if they are active in the system, check in the Voyager "System" panel.
- In Voyager, you see that all devices are streaming, and their settings are as expected. You can see this most simply in Voyager Devices->Info. (For more information, consult the documentation. If the devices are expected to have GPS, make sure they are all in GPS-LOCK status.
- If you are forming a MESH network, check its architecture and signal strength between devices in Voyager "Devices -> Mesh Graph".
- Voyager log is error-free.
- Make a test recording: Manual, Trigger, Ring Buffer (depending on the needs of the recording). Make sure the data is as expected (see the documentation for more details).

THREE NETWORK INTERFACES AVAILABLE

- **ETHERNET (default)** - network interface through which the device is connected to the LAN. Through the same port, the device also receives power (Passive POE: 10 - 28VDC). The user can power the device on this port using a POE Injector with an attached DC power source, or power it using a passive POE switch. This interface comes with a preconfigured static IP address and no Gateway set (default: 10.10.10.11, 10.10.10.12, 10.10.10.13, ...). This configuration can be modified through the web interface of the device or using Voyager (change of static IP address, DHCP address configuration, Gateway, ...). See the documentation for more details.
- **Wi-Fi (optional)** - a network interface through which the device is attached to an existing Wi-Fi network. This interface comes configured as DHCP, which means it will receive an IP address and Gateway from the external Wi-Fi router. To be added to Voyager, the xPlover device needs to be in the same address range (using its static port (ETH1) or dynamic port (ETH2)) as it would be selected as the "Stream host IP address" for this device (see the documentation for more details). This configuration can be modified through the web interface of the device (only when it is connected via ETHERNET) or using Voyager (change of static IP address, DHCP address configuration, Gateway, ...).
- **GSM (optional)** - network interface through which the device is connected to the cellular network. In this case the xPlover device (stand-alone or cloud) must have a static public IP address or domain as it would be selected as the "Stream host IP address" for this device (see the documentation for more details). This configuration can be modified through the web interface of the device (only when it is connected via ETHERNET) or using Voyager (change of static IP address, DHCP address configuration, Gateway, ...).