TELOS INFINITY MXP-20
Digital Intercom Expansion Panel

INTRODUCTION

The INF-MXP-20 is a key expansion panel designed to work as part of the Telos Infinity 'matrix-free' IP networked Intercom system. Each MXP-20 provides an additional 20 contact keys in a 1 RU space to an MP-16 Master Panel that it is paired with.

The MXP-20 connects to the MP-16 Master Panel via 1000Mbps Ethernet network. It is powered by PoE (Power over Ethernet) either directly from the network switch or via an external PoE source. Additionally, a screw-lock 12VDC inlet is included on the rear panel, which may be used as primary power if PoE is not available, or as part of a redundant power design (recommended and encouraged).

This document covers basic installation, configuration, and pairing with the associated Master Panel. Refer to the Master Panel Quick Start Guide or owner's manual for further information about programming, key types, and operation.

FRONT PANEL

Figure 1 - MXP-20 Front Panel

CONTACT KEYS

The front panel of the MXP-20 only contains contact keys/display. Each contact has its own key. Pressing the key down enables the Talk function and pressing the key up enables the Listen function or answers an incoming call.

REAR PANEL

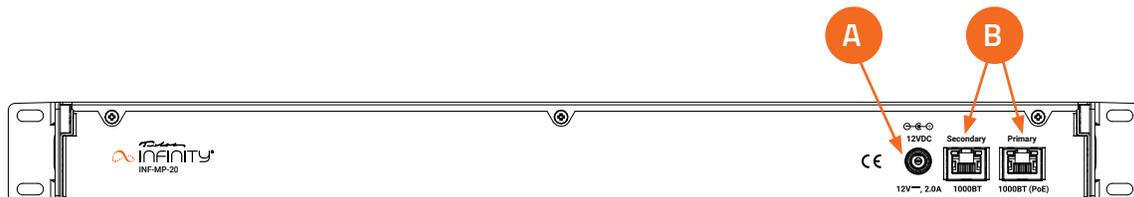The rear panel of the MXP-20 comprises the following connectors:

Figure 2 - MXP-20 Rear Panel

FIGURE 2

(A) 12 VDC Power Input, **(B)** Network Ports

DC INPUT

A secure screw-lock +12 VDC input is included. This may be used to provide a redundant power source (recommended) or primary power if a PoE source is not available.

NETWORK CONNECTIONS

Two 1000-based T network connections are provided. One ethernet port is for the input and PoE, and the other port may be configured as a separate control or a network "through" for connecting to Expansion Panels.

WIRING IT ALL UP

There are several methods to install and connect Expansion Panels to their associated Master Panel, and the requirements differ depending on how many Expansion Panels are being added.

When integrating one expansion panel, it may be daisy-chained from the Master Panel that it is to be paired with. It is important to note that the Master Panel does not provide PoE. If a PoE source is desired, it must be inserted in between the Master Panel and the Expansion Panel. An example connection diagram is shown below:
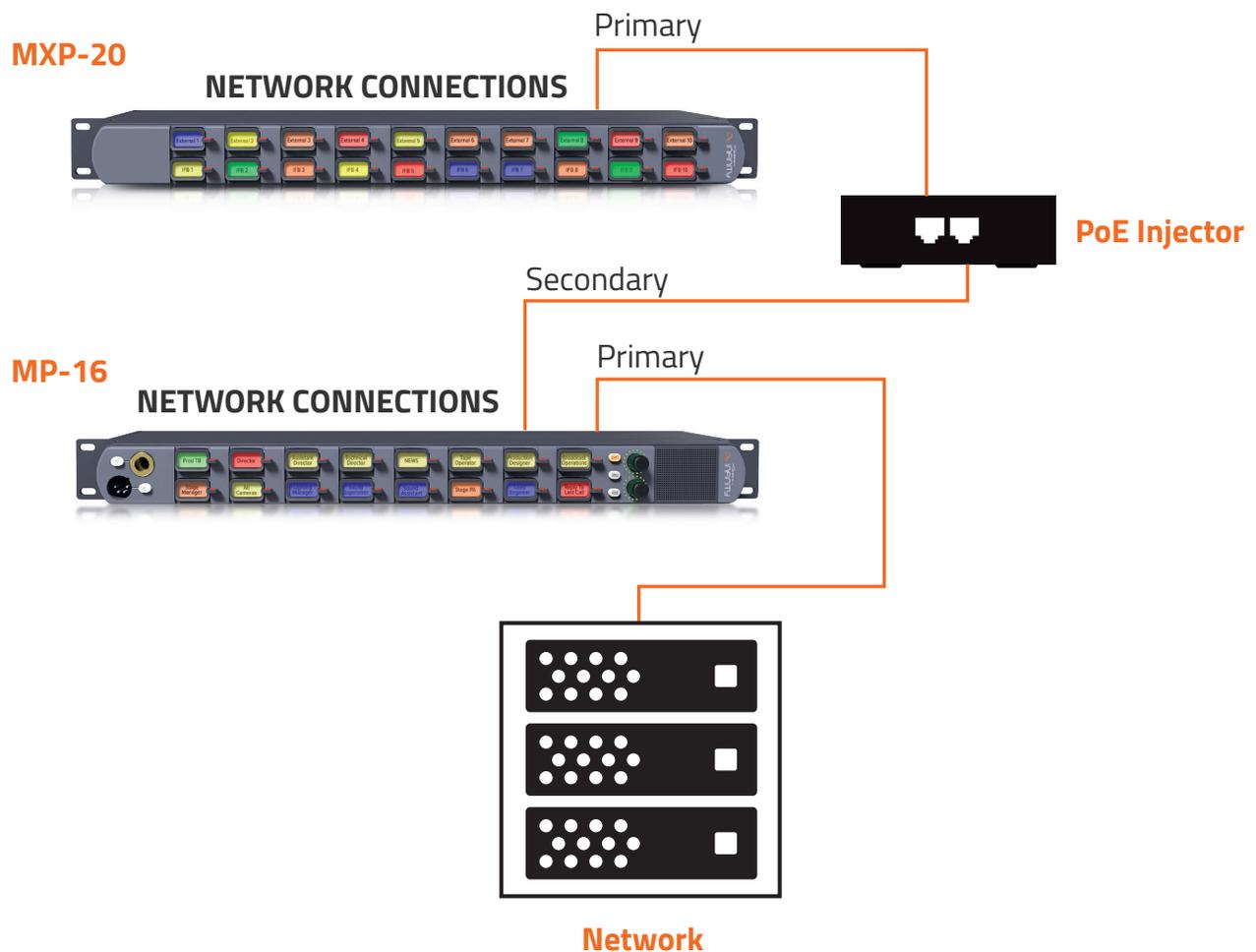

Figure 3 - single MXP-20 Integrated with a MP-16 Master Panel

When integrating more than one expansion panel, a switch is required. An example connection diagram is shown below:
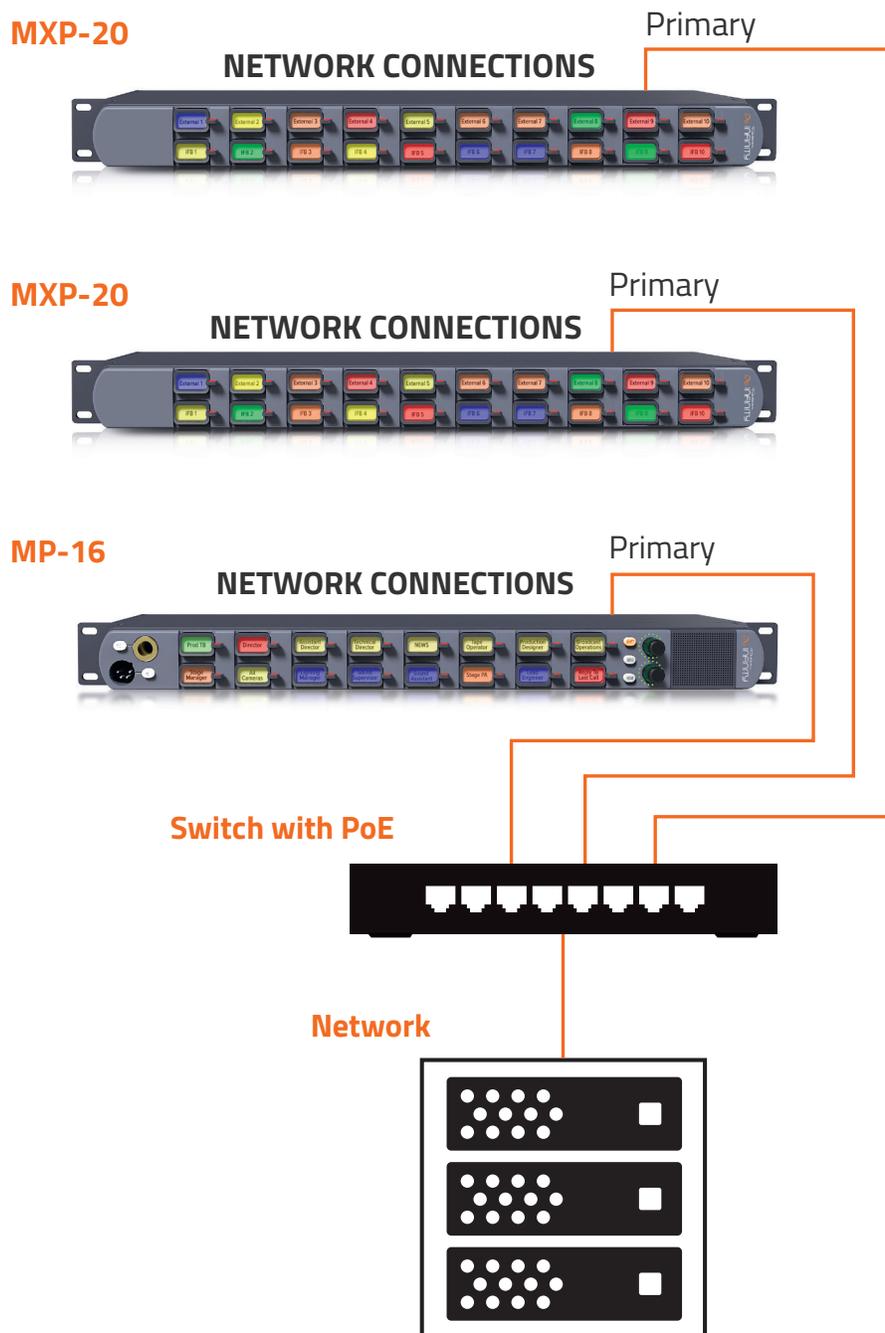

Figure 4 - multiple MXP-20s integrated with a MP-16 Master Panel

CONFIGURATION

Because the requirements and configurations for every intercom system are unique, the MXP-20 ships from the factory completely unprogrammed. It is, however, pre-configured for use with a DHCP server equipped network. This means that before the unit is ready to be used, it must be configured, paired with a Master Panel, and programmed appropriately. This is accomplished using a web browser and the Dashboard application.

INITIAL CONFIGURATION USING A WEB BROWSER

MXP-20 Expansion Panels will not be displayed as devices in Dashboard, therefore some basic configuration of the device before using Dashboard is recommended.

When the MXP-20 boots up and is not paired with a Master Panel, its network settings will be displayed on the front panel. Connect the unit to its intended network, then use a web browser to log into the unit and perform some basic configuration. When logging in for the first time, a user name and password will be requested.

User name = user
Password = none (there is no password, simply press the "Enter" key)

Rename the unit to something ("Label" field) that will make sense when programming the system, then configure the desired network settings for the unit.
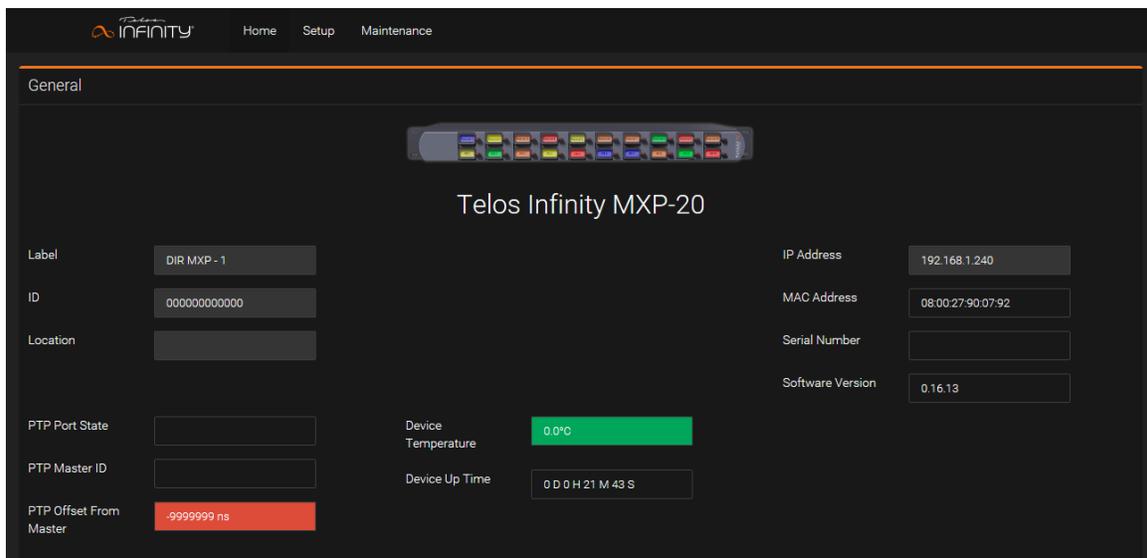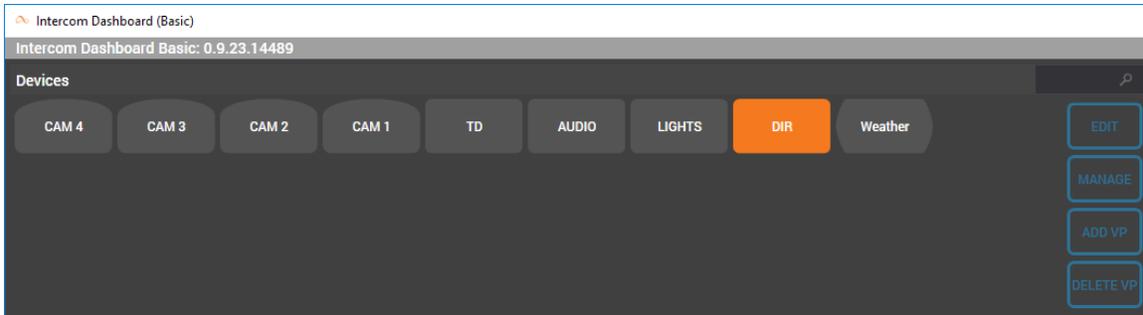

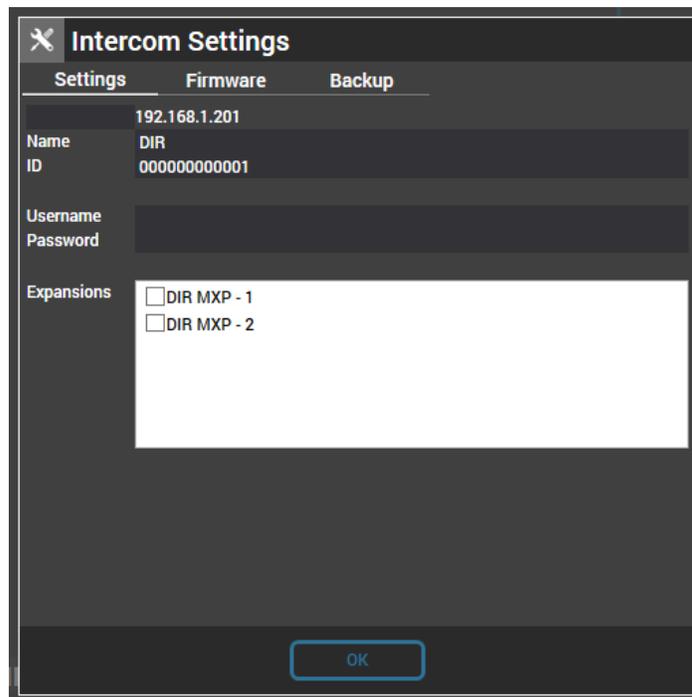Figure 5 - MXP-20 Web Page

DASHBOARD

After the MXP-20 has been configured, launch Dashboard and wait for it to scan the network.

Select the Master Panel desired to pair the MXP-20 with. In this example, the Director's panel ("DIR") will be used.

Once the Master Panel has been selected, click on "EDIT". The available Expansion Panels will appear in the Expansion box

Select the desired MXP-20 unit to pair with the Master Panel, the press "OK". The additional keys that the Expansion Panel(s) add to the station will automatically be displayed in Dashboard.
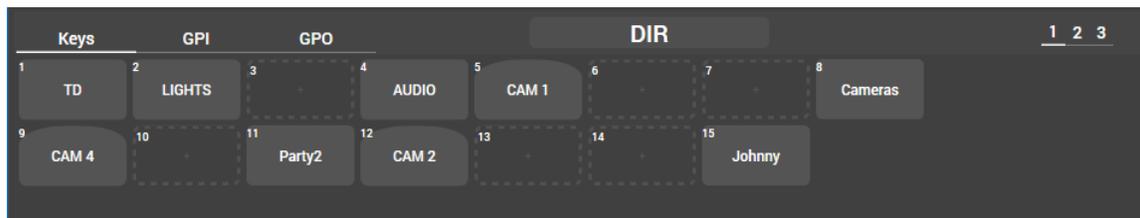
Figure 6 - Keys display for MP-16 without Expansion Panel

Figure 7 - Keys display for MP-16 with one Expansion Panel paired

Figure 8 - Keys display for MP-16 with two Expansion Panels paired

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