Quick Start Guide P-AVN-3-HDBT HDBaseT 3.0 IPMX Gateway Transceiver

Introduction

The P-AVN-3-HDBT HDBaseT IPMX Gateway Transceiver connects to remote wall plate panels, separating the physical transceiver chassis into a secure location where the end user experiences a sleek input/output wall plate. This product is compatible with the P-AVN-310H series wall plates, or compatible 3rd party products using HDBaseT 3.0 technology.

What's in the Box?

- P-AVN-3-HDBT appliance
- DC power supply and datable cable
  - Required to remotely power wall plates over PoH
- Quick Start documentation (this guide)

If the equipment appears to be damaged, email procare@plexusav.com

Operation Instructions

Step 1.) Connect provided power supply between outlet and PWR port on the back of the unit.

Step 2.) Connect HDBaseT port on the rear of the unit to the wall plate device

Step 3.) Using IP shown on front panel of P-AVN-3 open web-interface

   Example: https://192.168.1.100 (be sure to use https:// in browser URL)

   Username: admin   **Password:** proav101

Step 4.) Use Dashboard page in web-interface to select encode/decode mode and choose input/output settings.

[optional] *If the wall-plate has local DC supply connected and no PoH/PoC delivery is needed. The P-AVN-3 can be powered by a PoE+/PoE++ Switch*

Front Panel Overview

The front panel of the P-AVN-3 includes status LED's, a full color matrix display, and recessed factory reset button.

1. **STATUS LED:** power indicator on left is green when on, status will show green or red depending on streaming/error state
2. **FRONT PANEL DISPLAY:** displays IP information and NMOS network name
3. **FACTORY RESET:** push and hold for 10 seconds, release to default unit

Rear Panel Overview

The rear plate features multiple network ports, pay attention to the one labeled HDBT as that will wire to the wall plate / HDBT 3.0 device.

1. **HDBT 3.0 I/O:** direct wire from wall plate / HDBT device to P-AVN-3
2. **NETWORK:** network pass through to the connected USB-C device at plate
3. **SERIAL:** RS232 / Serial commands can be triggered from UI
4. **AUDIO:** analog audio inputs (balanced/unbalanced XLR/RCA via 5-PIN phoenix
5. **SFP:** 1Gbps SFP fiber port for long network runs and optical switches
6. **ETH1/PoE++:** recommended single wire network connection for MGMT/IPMX
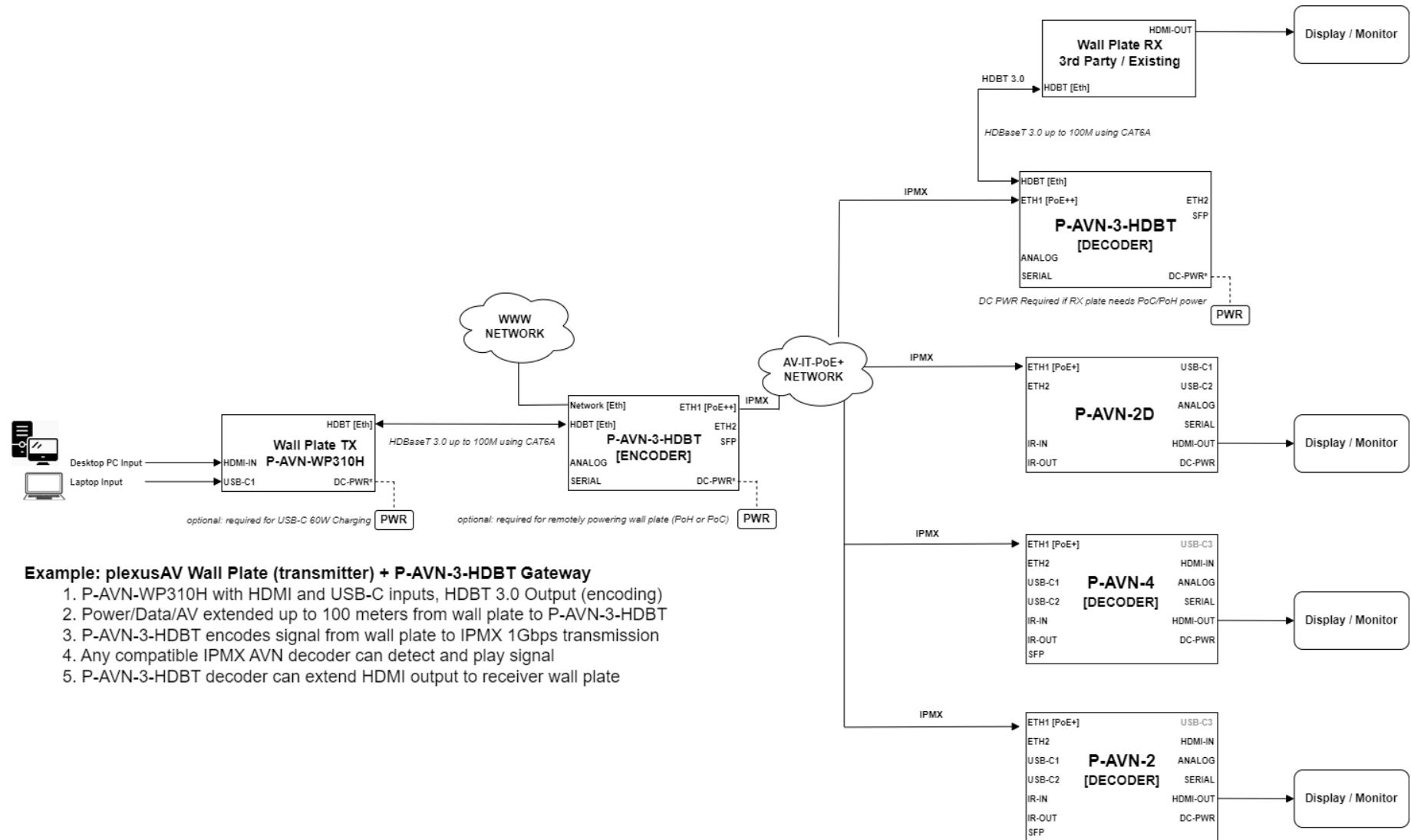7. **POWER:** wires to included DC power supply

The P-AVN-3-HDBT can remotely power the wall plate over the HDBT wire. The power can be configured for PoH or PoC style delivery. Be sure to consult the HDBT device specification before enabling PoH.

*PoH power delivery is used for the P-AVN-WP310H device
**DC adapter is required at the wall plate to provide USB-C charging

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Figure 1: P-AVN-3-HDBT Wall Plate Wiring Example

This diagram shows WP310H wall plate inside of a complete plexusAV solution using various AVN series IPMX encoders and 3rd party HDBT device at the decoder

Example: plexusAV Wall Plate (transmitter) + P-AVN-3-HDBT Gateway
1. P-AVN-WP310H with HDMI and USB-C inputs, HDBT 3.0 Output (encoding)
2. Power/Data/AV extended up to 100 meters from wall plate to P-AVN-3-HDBT
3. P-AVN-3-HDBT encodes signal from wall plate to IPMX 1Gbps transmission
4. Any compatible IPMX AVN decoder can detect and play signal
5. P-AVN-3-HDBT decoder can extend HDMI output to receiver wall plate