



Introduction

Audio Wireless Diversity Antenna Distribution Module (DADM226) consists of 3 sections:

- A. Antenna Distribution Section
- B. Mast Head Amplifier (MHA) Powering Section
- C. DC power distribution Section

A. Antenna Distribution Section

This section includes 2 x 2 BNC antenna Inputs and distributes the received signal to 2 x 6 SMA RF Output. The RF section has a custom designed Band-Pass Filter to reject the unwanted signals outside the pass band.

B. Mast Head Amplifier (MHA) Powering Section

Switchable T-bias may be used to power in-line antenna amplifiers or remote antenna booster amplifiers (active antennas) to compensate long antenna extension cables.

C. DC Power Distribution Section

This section includes one dc input connector (Hirose) located at the front panel (green LED ON) and 3 x DC Hirose outputs at the RHS panel (individually switchable) to power Radio Receivers or any auxiliary sound equipment.

Step-by-Step Setup:

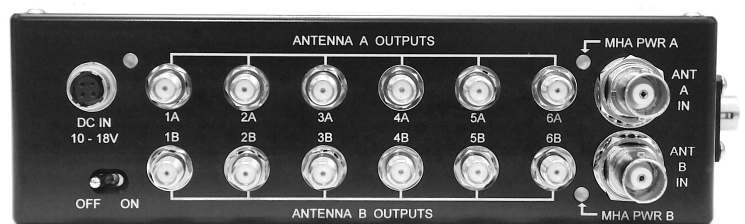
1. Connect the Receivers with a short RF link cable to “Antenna A Outputs” and “Antenna B Outputs” (SMA). Care should be taken so that Antenna “A” and “B” outputs are connected correctly to the corresponding antenna “A” and “B” inputs on the Receivers for proper diversity operation.
2. Connect the antennas with a short antenna extension cable to the two BNC Antenna Input connectors.
3. Turn **ON/OFF** switch to ON – the system is ready (GREEN LED ON).
4. Use the UP arrow to navigate through the menu
5. **“AW-RX POWER”** select **ON** to power “Audio Wireless or Micron receivers” through antenna inputs, **for all other receivers this function MUST be OFF.**
6. **“MHA POWER”** activated **ON** to power active antenna amplifiers (RED LED ON)
7. **HIROSE DC POWER** activated **ON** for dc-distribution.



DC Power Distribution Section



Control Panel with OLED Display



Antenna Distribution Section

MHA Powering

Use the UP arrow to navigate through the menu

Use the SET button to enter the sub-menus, to change a setting (e.g. ON/OFF) and to save any configuration



1. WELCOME PAGE

The GREEN LED and the “Welcome Page” will be displayed when the unit turned ON. (the “Welcome Page” is displayed and the “MHA PWR” RED LED’s temporarily flashes, the OLED display is “ON” for 3 seconds and it goes into sleep mode, if the master switch was set at “OFF” position) when the dc power cable plugged in.



2. INPUT DC VOLTS

System dc input volt meter

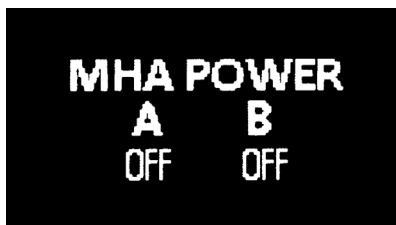


3. AW-RX POWERING

Audio Wireless and Micron receiver powering options through the antenna inputs.

Warning

Other brand receivers, “AW-RX Powering” 1-6 should be OFF

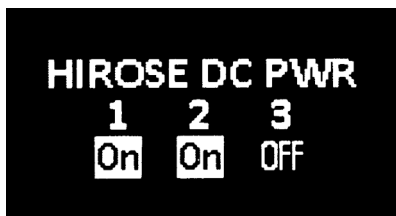


4. MHA POWERING

MHA power may be activated if an “In-Line Antenna Amplifier” and/or an “Active Antenna Booster Amplifier” is used, Antenna “A” and/or “B” can be activated independently, RED LED ON.

Warning

- a) Make sure that MHA switch is always in OFF position if no MHA is used.
- b) Do not turn the MHA switch OFF when a MHA is in use (MHA off inline will act as an attenuator and degrade system performance)
- c) In case of a dc short at the Antenna inputs – both antenna inputs are dc short circuit protected, to resume normal operation turn the master switch ON/OFF to re-set the internal fuse (no need to replace the internal dc fuse)



5. HIROSE DC POWERING

The 3-dc Hirose sockets may be used to power any auxiliary sound equipment; each dc output can be activated individually, each dc output is reverse bias and overcurrent protected.

NOTE:

Maximum current limit is total of 2A (a) make sure that the dc source has enough current capacity (b) some dc sources have internal resettable fuses fitted please make sure that current limit is set high enough so that it does not trip at turn ON/OFF (surge current).



6. LOCK

The unit can be locked in two ways:
 LOCK ON (remains enabled after dc power is disconnected)
 LOCK SU (automatically disabled after dc power is disconnected).