DIY599.com

RF linear power amplifier with build-in antenna tuner (ATU)

PA500 Advance settings

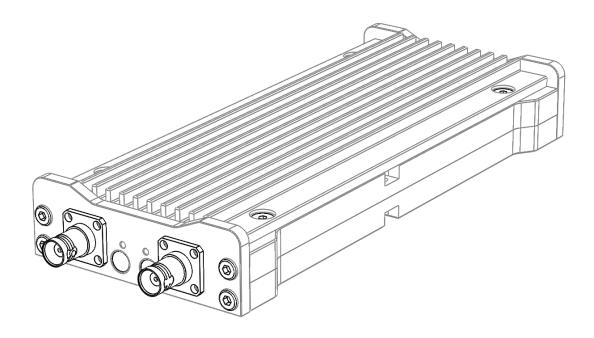
PCB Version 2.9/3.0

operating frequency range between 3.5MHz-30MHz

The device requires an amateur radio transceiver to operate.

This device is for use by licensed radio amateurs only

FCC-ID: 2A2IEPA500

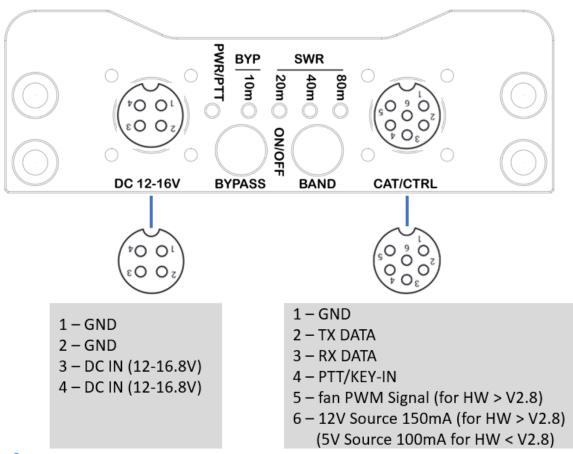


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connectors	3
Set the unit into full-automatic mode	4
Advance settings (need a USB-UART cable)	4

connectors

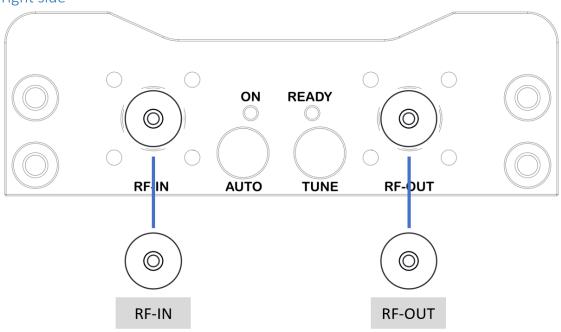
left side





there is no reverse polarity protection, incorrect wiring will destroy the device.

right side



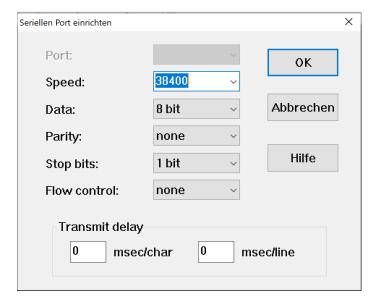
Set the unit into full-automatic mode

make sure that the device is powered-off.

- 1. TAP and HOLD BAND and BYPASS button for about 1 seconds
- 2. Release BAND button and CONTINUE to hold the BYPASS button for one more second
- 3. PA will be powering ON (white LED is ON)
- 4. Toggle through the modes by tapping the BYPASS button, to the MODE 2 (only yellow LED on)
- 5. Tap the BAND button to save the configuration.
- 6. Tap and hold BYPASS and BAND button to power-off the device

Advance settings (need a USB-UART cable)

Start TERA Term (or an alternative terminal program) on your computer. Set the COM Port to the port number of the calibration-adapter. The Baud rate need to be set to 38400.



make sure that the device is powered-off.

- 1. Remove the power cable from the PA500
- 2. Tap **BAND** and **hold the button**
- 3. Connect the power cord to the PA500, still hold the BAND button
- 4. PA will be powering ON (white LED is ON)
- 5. Follow the instruction on the computer screen
- 6. Follow the instruction on the computer screen to continue and finish the procedure

Terminal window:

Note: the calibration (9) cannot be performed by a user.

Configuration examples for CW operations

CW operators whish sometimes a faster response time of the hardware. To avoid relay clicking, it may be necessary to adjust the PTT release time, the PTT restart time and VOX-PTT-Sensitivity.

A good value may be the following setting.

- (2) PTT-release-time = 13
- (3) PTT-restart-time = 1
- (4) VOX-PTT-sensitivity = 100