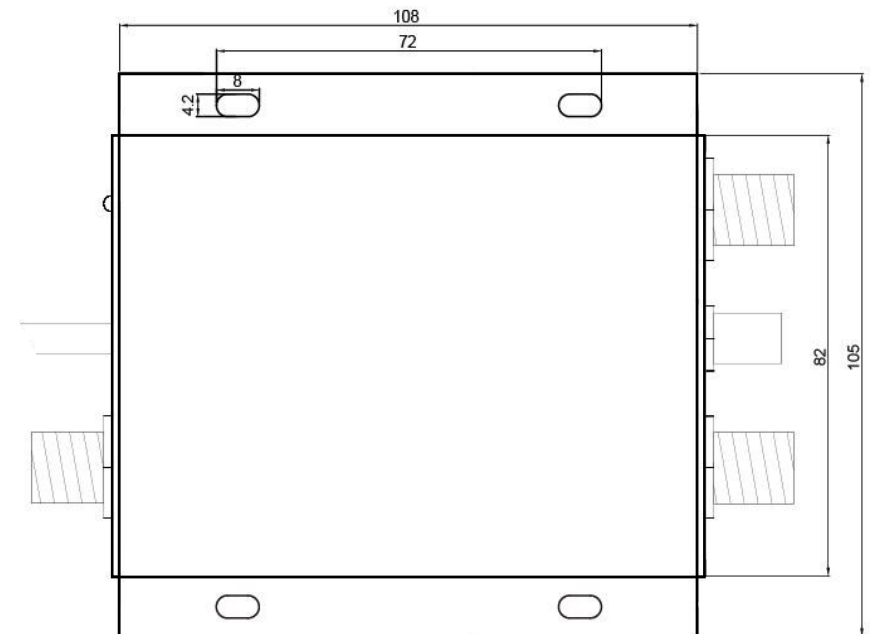# QUARK-ELEC

SET-UP GUIDE

QK-A015-TX

ACTIVE AIS/VHF ANTENNA SPLITTER
BI-DIRECTIONAL -FOR USE WITH TRANSPONDERS

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⚠ **This is an overview only.** Familiarize yourself with the manual and the manuals of any connecting devices before installation. It is always recommended that electronic equipment be installed by an experienced installer.

Please note: The A015-TX is compatible with AIS transponders/transceivers.

(Though the A015-TX can be also be connected to AIS receivers, the A015-RX is sufficient for 'receive only' applications.)
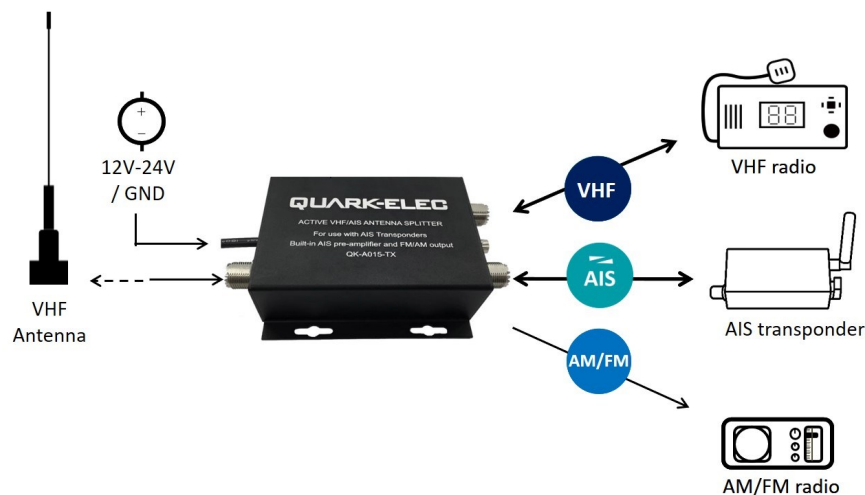
INTRODUCTION

The QK-A015-TX active antenna splitter allows one VHF antenna to be shared between:
1. VHF radio
2. AIS transponder
3. AM/FM radio

Straight forward connection to all relevant devices, with no configuration required.

The A015-TX allows the one VHF antenna to provide:
- Reception of :
  - VHF radio
  - AIS messages
  - AM/FM radio.
- Transmission from:
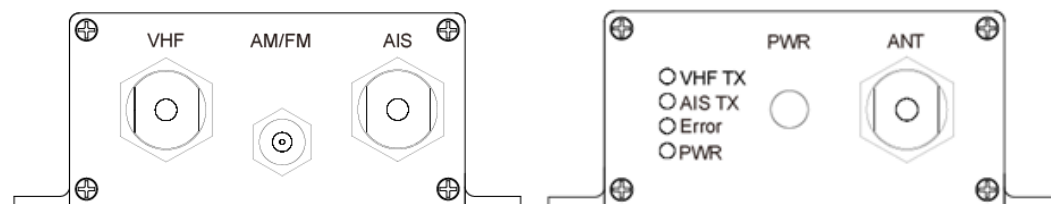 - VHF radio
  - AIS messages.

INSTALLATION

The A015-TX has five connections:
- **Power cable:** connect to 12V-24V DC power and GND
- **VHF Antenna:** SO239 connector for 2-way connection to VHF antenna
- **VHF radio:** SO239 connector for connection VHF radio
- **AIS:** SO239 connector for connection to AIS transponder
- **AM/FM:** BNC connector for the output of the FM/AM radio signal

The A015-TX is a plug and play device. No Configuration required.

⚠ **Connect the VHF antenna before connecting other devices!**

Connecting powered devices to a splitter without first connecting the VHF antenna will damage your devices. Follow the instructions below carefully and in the right order.

⚠
1. **Remove power source from the A015-TX**
2. **Remove power source from all devices** to be connected.
3. **Connect the VHF antenna to the splitter** before adding power or any devices.
4. **Connect all other devices (unpowered) to the A015-TX** (ie. VHF radio, AIS transponder and FM/AM radio)
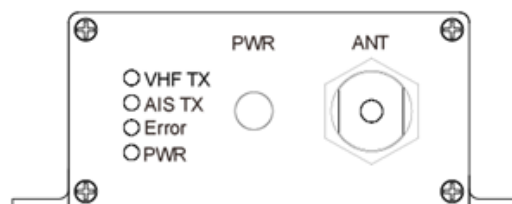5. **Power the A015-TX**
6. **Power all connected devices** (ONLY do this AFTER following the above steps in the correct order).
7. **Checking status LEDs** light up when expected.

STATUS LEDS

The A015-TX has four LEDs that indicate power and the splitter's status.

- **VHF TX:** Transmitting VHF radio *
- **AIS TX:** Transmitting AIS
- **ERR:** Indicates errors *
- **PWR:** Indicates power *

***VHF fail-safe function** - VHF radio has full priority and will remain functional, even in the unlikely case that the Splitter would lose power or fail.